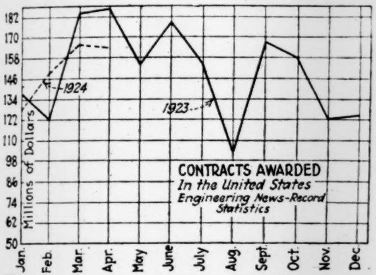
CONSTRUCTION NEWS

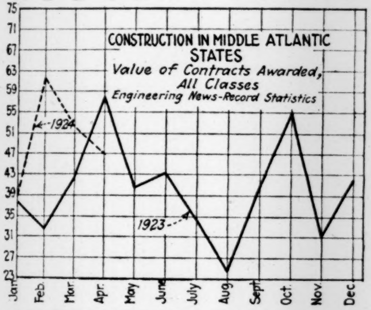
Engineering News-Record, May 15, 1924

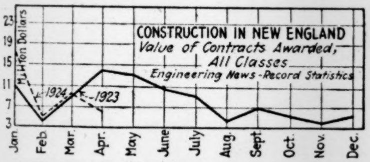
The Construction Barometer

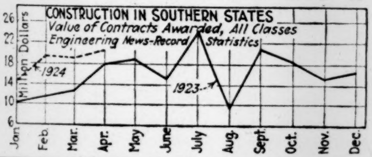
South, Middle West and Far West Show Construction Gains During April — Steady Increase in Large Contract Letting During Past Three Weeks— Public Building Awards Slower

GAINS in construction during April, as compared with the month preceding and with the corresponding period in 1923, occurred in three sections of the country, namely, the South, the Middle West and the Far West. In all the other geographic divisions there were declines. Large contract letting, however, has shown steady gains over the entire country during the past three weeks. Both private and public construction have contributed to these gains. Large public building awards have fallen off gradually since the week of Apr. 24. Judging from the number of large projects now out for bids, any gains in contract letting during the next three weeks, will be in private work.









Engineering News-Record Statistics

Minimum on water-works and excavations, $15,000; other public work, $25,000; industrial buildings, $40,000; commercial buildings, $150,000.

VALUE OF LARGE CONTRACTS LET IN THE UNITED STATES

Week Ended	Public Work	Private Work	Total Contracts
Apr. 24	$22.575,000	$12,153,000	$34,728,000
May 1	23,838,000	20,548,000	44,386,000
May 8	30,319,000	38,829,000	69,148,000
3 weeks	$76,732,000	$71,530,000	$148,262,000

LARGE BUILDING CONTRACTS—NUMBER AND VALUE

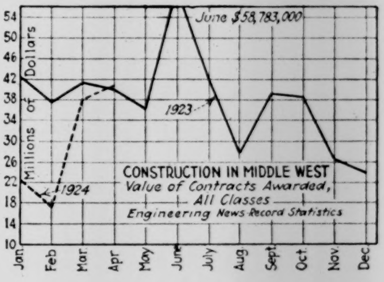
Week Ended	No.	Public Work	No.	Private Work
Apr. 24	10	$5,810,000	24	$9,124,000
May 1	20	4,801,000	33	11,761,000
May 8	10	2,637,000	47	19,111,000
3 weeks	40	$13,248,000	104	$39,996,000

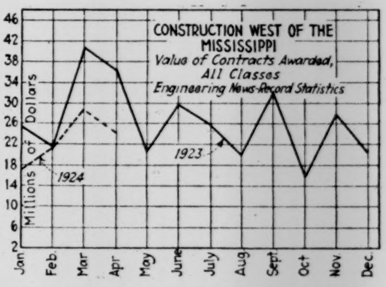
NUMBER OF LARGE JOBS NOW OUT FOR BIDS

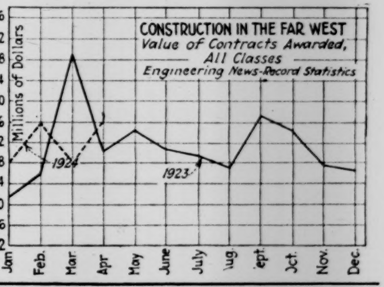
		Public			
Week Ended	Private	All Buildings	Streets and Roads	Waterworks and Sewers	All Public
Apr. 24	25	51	104	55	282
May 1	30	50	100	51	249
May 8	35	45	96	40	198

TREND OF STEEL AND LUMBER DOWNWARD

	Quoted on May 15 at	Price was	On
Structurals, Pittsburgh, 100 lb.	$2.10 @2.35	$2.25 @2.35	May 8
Cement, Chi., net bbl.	2.20	2.10	Jan. 24
Pine, N. Y., M.ft.	61.00	63.00	May 8
Fir, San Fran., M.ft.	36.00	38.00	Jan. 24
Common labor, hr.	.56	.55	Apr. 24







Waterworks

PROPOSED WORK

Pa., Pittsburgh — Dept. Pub. Welfare soon takes bids reservoir at Pittsburgh City Home and Hospital at Mayview. $27,000.

Fla., Daytona Beach — Voted $25,000 bonds, waterworks extension. E. A. Donavan, clk.

Fla., Fort Pierce—Election July 1, $125,000 bonds, improving and extending water system. M. Hallowe, Fort Pierce, engr.

Tenn., Jackson—Voted $100,000 bonds improvements and extension to water plant. L. Taylor, mayor. Noted Mar. 6.

O., Carrollton — Voted $85,000 bonds waterworks plant.

O., Sunbury—Making plans 100,000 gal. tank, possibly 2 wells, electrical driven pumping station and about 4 mi. 6 and 8 in. mains. $22,000 bonds voted. Jennings-Lawrence Co., Hartman Bldg., Columbus, engrs.

Ill., Centralia—Voted $120,000 bonds, to purchase and install water works filtration plant, etc.

S. D., Sioux Falls—Plans about 7 mi. mains. S. B. Howe, city engr.

Tex., Blooming Grove — Voted $42,000 bonds waterworks. Elrod Eng. Co., 3124 Elm St., Dallas, engrs. Noted Apr. 17.

Tex., Claude—Election May 31, $45,000 bonds, complete waterworks.

Tex., El Paso—See "Unclassified" under Park Improvements.

Tex., Paducah—Plans complete waterworks plant. $60,000 bonds voted.

Tex., Ralls—Voted $50,000 bonds waterworks. Montgomery & Ward, City Natl. Bank Bldg., Wichita Falls, engrs. Noted Apr. 17.

Okla., Hollister—Election May 16, $15,000 bonds, new water system, incl. deep well and pump, tank and 6,000 ft. 4- and 6-in. c.i. pipe. W. H. Oakley, mayor. Engineer not selected.

Ariz., Flagstaff—Having plans prepared and will soon vote on $375 000 bonds, 50 m.g. concrete reservoir, pipe line, etc. Burns & McDonnell Eng. Co., 412 Marsh-Strong Bldg., Los Angeles, Calif., engrs. Noted Apr. 19, 1923.

Calif., Newport Beach — Having plans prepared water system for Corona Del Mar sub-division. $50,000. P. E. Kressly, H. W. Hellman Bldg., Los Angeles, engr.

Calif., San Francisco — City and San Francisco Co. cancelled contract awarded United Iron Pipe & Fdry. Co., Monadnock Bldg., for submarine pipe for Hetch Hetchy project. Noted Mar. 20.

Calif., Santa Barbara—Had plans prepared 12 in. main in State St. between Sola and Gutierrez Sts. $26,000. G. D. Morrison, city engr.

Waterworks (Continued)

Que., Three Rivers—Had plans prepared filtration plant, 6 beds. $370,000. C. Gelinas, city engr. Noted Feb. 28.

BIDS DESIRED

N. Y., Brooklyn—May 23, by N. J. Hayes, comr.. Water Supply, Gas & Electricity, Municipal Bldg., New York, mains in Eastern Parkway, Lloyd Court, Kenmore and Mansfield Places, 10th, 21st, O, P, U, Danforth, Maspeth, Pennsylvania, and Thatford Aves., President, Union, 53rd, 66th, 68th, 69th, 72nd, 82nd, 85th, West 3rd, West 6th, West 9th, West 10th, West 12th, Batchelder, East 3rd, East 4th, East 26th, East 28th, East 29th and East 96th Sts., here.

N. Y., Fredonia—May 26, by Bd. Village Trustees, excavating and laying about 19,000 ft. 12 in. mains. H. P. Bishop, village clk.; adv. E. N.-R. May 15.

N. Y., New York—May 23, by N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., mains in Bronx Blvd., Unionport Rd., Sexton and Lamport Places, Adee, Barnes, Bissel, Cruger, East Tremont, Hobart, Monticello, Roberts, Wilcox, and Young Aves., East 212th and Victor Sts., Bronx Boro.

Md., Baltimore—May 21, by Bd. Awards, Pumping Station 2, Contr. 213, incl. c.i. pipe lines, sludge pumping station and sludge well, 9 gate valves, 65 tons c.i. pipe and special castings, 12 fire hydrants. B. L. Crozier, City Hall, highways engr.

La., New Iberia—May 20, by L. F. Villermin, city clk., furnishing and installing two 275 kw. alternating current generators, two 1,000 g.p.m. centrifugal fire pumps, one 600 g.p.m. and one 1,000 g.p.m. centrifugal pumps, also new power house and rein.-con. reservoir. J. W. Billingsley, Interstate Bank Bldg., New Orleans, consult. engr.

O., Cleveland — May 21, 60 in. c.i. or steel pipe in Sect. M, Woodland Ave., Contr. 30-M, to exceed $100,000, A. V. Ruggles, City Hall, engr.; mains in 21 streets, to exceed $50,000. R. Hoffman, City Hall, engr.

O., Cleveland—June 12, at office Commissioner Purchases & Supplies, City Hall, filter equipment at Baldwin Filtration Plant. C. P. Jaeger, comr. water and heat; adv. E. N.-R. May 15.

O., Columbus—See "Streets and Roads."

O. Wadsworth—May 17, by village, 500 g.p.m. deep well pump, 14 in. well, wood pump house, etc. To exceed $15,000. R. E. Garvin, Davis and Farley Bldg., Cleveland, engrs.

Tex., Irving—Irving Freshwater Impvt. Dist., c/o M. R. Ferguson, Praetorian Bldg., Dallas, taking bids 30,000 gal. tank on 100 ft. tower, gasoline engine, 30 hp., 250 gal., 2 stage, 135 ft. head, centrifugal pump, double stroke deep well pump, 380 ft. well, pump house, 20,000 ft. miscellaneous pipe, etc. Noted Feb. 14.

Tex., Marshall — Taking bids main extensions. $80,000. M. Ransey, city engr.

Colo., Denver—June 6, (change of date) by City and Denver Co., by and through its Bd. Water Comrs., 1509 Cleveland Pl., Contr. A, 64 m.g. rapid filter plant, Contr. B, intake from Lake to Filter plant, all located on north side of Marston Lake. B. Lowther, ch. engr.; adv. E. N.-R. May 15.

N. M., Tucumcari—June 14, by City Council, R. Paiz, clk., waterworks system. Weiland Eng. Co., 725 Thatcher Bldg., Pueblo, Colo., engrs.; adv. E. N.-R., May 15.

Wash., Kelso — May 22, by City Clerk, 550 ft. 8 in., 2,880 ft. 6 in. and 2,670 ft. 4 in. Class C c.i. pipe, 620 ft. 2 in. and 5,000 ft. ¾ in. galvanized iron pipe. G. Norris, Kelso, engr.

BIDS RECEIVED

O., Cleveland—Cuyahoga Co. 11,500 ft. 6- to 16-in. c.i. mains, Impvt. 551, from Winterbottom & Connelly, 2644 Southington Rd., $72,155. Noted Apr. 24.

Wash., Seattle—Bd. Pub. Wks., May 2, mains, from F. N. Badolato, Box 561, 14,375 ft. 8 in. c.i. pipe $2.10, 1,665 ft. 10 in. c.i. pipe $7, total $59,445. Engrs. est. $64,196.

Que., Montreal—Water main culvert under Canadian Natl. Ry. tracks at Atwater Ave., from D. G. Loomis, 1112 St. Patrick St., $24,635. Noted Apr. 10.

Que., Montreal—Plans 6,457 ft. 8 in. mains in Molson, Langemarck, Liege, Poincare, Viel, Benoni, Henderson, Patricia, Desjardins, Craik, Bousset, Burma, Cote and Boyce Sts. $26,263. E. Gauthier, asst. city clk.

Ont., Smith Falls — J. J. Marsh, chn. Waterworks Dept., general contract for filter plant and dam, etc., from Schultz Bros., Brantford, $54,400; pumps erected from Bowden Machine Co., Toronto, $2,568, filter equipment from Canadian International Filter Co., Ltd., Toronto, $15,953. Noted Apr. 10.

CONTRACTS AWARDED

Mass., Springfield—Bd. Water Comrs., masonry filters and buildings, to P. J. Cox Contg. Co., 154 Nassau St., New York City. Noted Apr. 10.

N. Y., Brooklyn — N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., New York, mains in Aves. K and M, Mansfield Pl., Kingston, Lott, Newport and 3rd Aves., Carroll, Malta, 57th, 80th, 81st, 8th, 12th, 28th, 29th, 58th, 59th and 91st Sts., here, to Wattaga Contg. Co., 308 Lenox Ave., New York, $14,500; Bedford, Coney Island, New York, P and Q Aves., Delamere, Elmore and Kenmore Places, East 2nd, 8th, 13th, 18th, 27th, 28th, 34th, 51st, 52nd, 53rd and West 11th Sts., here, to N. De Stefano, 257 Glenn Ave., Tompkinsville, S. I., $10,850; Farragut Rd., Foster, 8th, 10th, M and N Aves., 55th, 61st, 62nd, 64th, 71st, East 7th, East 87th, East 95th, East 98th, East 99th, East 100th and West 5th Sts., here, to Grippo Contg. Co., 85 Webster Ave., Long Island City, $10,246. Noted May 1.

N. Y., Fredonia—Furnishing 19,000 ft. 12 in. c.i. pipe, to U. S. Cast Iron Pipe & Fdry. Co., Burlington, N. J., Class A $2.14 per ft., Class B $2.21, Class C, sand, b. & s. pipe $2.47; 40 tons special castings to J. B. Clow & Sons, Inc., $0.05⅛ per lb. Noted Apr. 24.

N. Y., Long Island City—N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., New York, mains in Fresh Pond Rd., Caldwell, Clermont, Firth, Flushing, Homan, Mount Olivet, Phelps, Prospect and Wilton Aves., Delia, Harrow, Henry, Hosack, Madison, Mazeau, Proctor, Ramsey, Seabury, Stockholm, Van Horn, Van Tassel and Weirfield Sts., here, to Stanhey Constr. Co., $15,000; Maurice Ave. and 67 St. and removing existing connections, etc., at Queens Blvd. and Fisk Ave., here, to Hanratty Contg. Co., 605 Beach Terrace, New York, $124,149; Culver and Hunt Places, Alstyne, Burnside, Colonial, Maurice, Nicolls, Peartree and Way Aves., Ivy, Pilgrim, Van Cleff. 20th, 24th, 44th, 51st and 113th Sts., here, to J. A. Gregory, 351 East 124th St., New York, $17,324. Noted May 1 and 8.

N. Y., New York—N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., to Melrose Constr. Co., 230 East 162nd St., mains in Reservoir Oval East, Holt Pl., Crotona, Hull, Reservoir, Rochambeau and Van Cortlandt Aves., East 206th and 211th Sts., $7,780; to Knight & Demicco, Inc., 448 East Tremont Ave., mains in East 223rd and East 224th Sts., Barnes, Boyd, Bussing, Gunther, Bruner, Monticello, Murdock, Nereid, Pittman, Wickham and Dereimer Aves., $19,200, Knapp St., Westchester Esplanade, Allerton, Astor, Fenton, Mickle, Seymour and Waring Aves., $8,400; to J. V. Timoney Constr. Co., 220 East 201st St., mains in Bogart, Hering, Jerome, Lurting, Pierce, Radcliffe, Rhinelander, Sherman, Van Nest and Yates Aves., $7,458; to Hanratty Contg. Co., 605 Beach Terrace, in White Plains Rd., Chatterton, Gildersleeve, Gleason, Newman and Underhill Aves., $7,530; to C. De Blasio, 339 7th Ave., Mt. Vernon, in Boston Rd., Allenton, Astor, Cruger, Fairmount, Hollywood, Matthews and Wallace Aves., Barry and Cravens Sts., $7,568; to Beaver Eng. & Contg. Co., 51 Chambers St., in Grand Concourse, East Moshulu Parkway, Aqueduct, Montgomery, Van Cortlandt and Waldo Aves., East 180th, East 190th, West 175th, West 180th and West 197th Sts., $20,585. Noted May 1 and 8.

N. J., Beach Haven—Filter unit, to J. M. Dedinger, 1131 Winghocking St., Phila., Pa., $3,350; 4, 6 and 8 in. c.i. pipe and specials, to R. D. Wood & Co., 400 Chestnut St., Phila., Pa., $12,140; valves and hydrants, to Rensselaer Valve Co., 50 Church St., New York City, $2,536; excavating and laying pipe to Beach Haven Plumbing Co., Beach Haven, $3,687.

N. J., Berlin—Twp. Comn., artesian well, to Redpath & Potter Co., 22nd and Cambria Sts., Phila., $2,532; 4 and 6 in. c.i. pipe, fire hydrants and special castings, to R. D. Wood & Co., 400 Chestnut St., Phila., $76,126; 8, 10 and 12 in. c.i. pipe, to U. S. Cast Iron Pipe & Fdry. Co., 1421 Chestnut St., Phila., $35,067; valves and boxes, to Rensselaer Valve Co., 50 Church St., New York City, $4,841; steel standpipe, to Chicago Bridge & Iron Wks., 30 Church St., New York City, $10,490; standpipe foundation, to R. R. Fernow, Cynwid, Pa., $3,500; excavating and laying pipes, to E. F. Verga, 440 Cartaret St., Camden, $49,187. Noted Apr. 17.

Md., Baltimore—Bd. Awards, furnishing and delivering special 30-in. Poppet valves for additions to Montebello Filters, Water Contr. 73, to Ellicott Machine Corp., Bush and Severn Sts., $5,186; trench excav. for Water Dept., to M. and J. B. McHugh, 829 North Markoe St., Phila., Pa., $36,420. Noted May 8.

Fla., Sanford—Concrete reservoir, 1 m.g., to J. G. Gallespie, Sanford, $14,900; brick power house to Hall & Harris, Orlando, $4,700; pumping machinery to Fairbanks, Morse & Co., 630 West Bay St., Jacksonville; drilling well, to F. J. Rahen, Orlando; steel tank and fuel tanks, to R. D. Cole & Co., Newnan, Ga.; hydrants and valves, to Columbia Iron Wks., 811 Boyce St., Chattanooga, Tenn.; 20 mi. 4 to 6 in. c.i. pipe, to Natl. Cast Iron Pipe Co., Tarrant City, Birmingham, Ala.; pipe to Central Fdry. Co., Jefferson Co. Bank Bldg., Birmingham, Ala.; city will install distributing system. Noted Feb. 28.

Ill., Danville—Interstate Water Co., general contract for dam to R. McCalman, Inc., Danville; tainter gates to Worden-Allen Co., Port Washington Rd., Milwaukee, Wis.; sluice gates to Coldwell-Wilcox Co., South End., Newburgh, N. Y. Engrs. est. $125,000. Noted Apr. 17.

Wis., North Milwaukee—For c.i. mains to G. W. Mulholland, 2025 Oxford St., Rockford, Ill., 680 ft. 6 in. in 39th St., $2.70 per ft., 68 ft. 8 in. Sheridan Ave. $2.62, 326 ft. 8 in. Hampton Ave. $3.25, 980 ft. 8 in. 32nd St. $3.50, 1,155 ft. 8 in. Hopkins Ave. $3.65, 815 ft. 8 in. North Milwaukee Ave., $4.05; to J. Forrestal Co., 215 15th St., Milwaukee, 460 ft. 8 in. Atkinson Ave. $2.81, 641 ft. 6 in. 31st St. $2.82, 1,475 ft. 8 in. Hopkins Ave. $3.73; to Wenzel & Henoch, 27th St., Milwaukee, 641 ft. 6 in. in 32nd St. and 1,397 ft. 6 in. 40th St. $2.94. Noted May 1.

Neb., Hay Springs—R. Gustafson, city clk., furnishing and laying c.i. pipe, fittings, and setting hydrants and valves to A. C. Smith, Scottsbluff, $15,450, furnishing hydrants and valves to Interstate Mchy. & Supply Co., Omaha, $915. Noted Apr. 17.

Okla., Cushing — DeLavaud pipe for waterworks and sewers, to National Cast Iron Pipe Co., 903 Commerce Bldg., Kansas City, Mo., $115,744.

Sewers

PROPOSED WORK

Fla., Fort Pierce—Election July 1, $100,000 bonds, storm and sanitary sewers. M. Hallowes, Fort Pierce, engr.

Fla., Miami—Election May 21, $150,000 bonds (city's share), sanitary sewers. C. W. Murray, city engr.

Mich., Detroit—Dept. Pub. Wks., having plans prepared 2,019 ft. 12-18 in. sewers in Alley 4081, 7,895 ft. 10-15 in. in Alley 4098, 458 ft. 15 in. in Alley 4111, 302 ft. 12 in. in Alley 4115, 5,342 ft. 10-24 in. in Alley 4116, 5,477 ft. 12-20 in. in Alley 4117, 1,056 ft. 10-24 in. in Alley 4118, 1,056 ft. 10-24 in. in Alley 4120, 613 ft. 15 and 18 in. in Alley 4130, 7,752 ft. 10-15 in. in Alley 4132, 3,376 ft. 3 ft. cylinder and 12 in. crock in Alley 4133, all 2 ring brick and vitr. crock. G. Jerome, city engr.

Ark., Little Rock—Dist. 94 soon takes bids 2.25 mi. trunk line sewer in western and northwestern parts of town. $211,498. H. R. Carter, Exch. Bank Bldg., engr.

Tex., Blooming Grove — Voted $28,000 bonds sewers. Elrod Eng. Co., 3124 Elm St., Dallas, engrs.

Calif., Martinez — Had plans prepared and soon takes bids 5.5 mi. 6 in. lateral sewers. R. L. Calfee, 221 South 22nd St., Richmond, engr.

Calif., Oakland—Plans to complete Piedmont sanitary system and construct sewers in West Oakland Dist., $60,000 and $150,000 respectively. W. W. Harmon, city engr.

Que., Montreal—Plans 5,272 ft. 2 x 3 brick sewers in 1st Ave., Benomi, Trinidad, and Christophe Colomb Sts. $32,819. H. Terreault, city engr.

Que., Quebec—Having plans prepared sewer in St. Olivier St. Election in June to vote on $100,000 bonds for project. T. L. Tremblay, city engr.

BIDS DESIRED

Me., Portland—June 6, by E. M. Hunt, comr. pub. wks., City Hall, sewer in Forest Ave.; adv. E. N.-R. May 15.

N. Y., New York — See "Streets and Roads."

N. J., Orange—May 20, by G. C. Bergen, purch. agt. Essex Co., Court House, Newark, 12- to 18-in. concrete pipe in Scotland St., here. $27,000. W. A. Stickel, Court House, Newark, engr.

Fla., Jacksonville — May 21, by City Comn. 9,820 ft. 15- to 42-in. rein.-con. storm sewers and 9,058 ft. 4 in. sub-drain tile in Broad, 15th, Main, Post, Victoria and Laura Sts., Edgewood and Belvedere Aves. $61,325. W. E. Sheddan, Engineers Bldg., engr.

Sewers (Continued)

Ala., **Birmingham** — May 20, by City Comn., 20 blocks sewers, sanitary sewers $300,000, storm sewers $15,000. A. W. Hawkins, city engr. Noted Jan. 24.

Miss., Hollandale—May 22, by C. Hollingsworth, mayor and Bd. Aldermen, sanitary sewerage system, incl. 8,300 ft. 8 in. and 6,100 ft. 10 in. vitr. pipe, 45 manholes, 3 flush tanks, etc. Bobo & Collier, Clarksdale, engrs.

Tenn., Union City—June 18, by Mayor and Aldermen, sanitary sewerage system. W. D. Keiser, recdr.; adv. E. N.-R. May 15.

O., Cleveland—May 21, sewers in Broadview Rd., Clark Ave. S. W., Denley Ave. S. W., Granby Ave. S. W., Breton Dr. S. W., East Blvd., East 130th, East 143rd, East 146th, West 116th, West 117th and West 130th Sts., West 15th Pl., Grand Division Ave. S. E. from Warner Rd. S. E. to Turner Rd. S. E., Grand Division Ave. S. E. from Warner Rd. S. E. to city limits west, East 144th St. from Miles Ave. S. E. to Benwood Ave. S. E., East 144th St. from Kinsman Rd. S. E. to Glendale Ave. S. E.; storm sewer in Lake Shore Blvd. N. E. To exceed $100,000. R. Hoffman, City Hall, engr.

O., Columbus—See "Streets and Roads."

Michigan—See "Streets and Roads."

Wis., Horicon—See "Streets and Roads."

Ark., Pine Bluff — May 29, by Comrs. Dist. 1, Jefferson Co., in Assembly Room of Chamber of Commerce, 63,962 lin.ft. 6- to 15-in. clay pipe sewer, 204 manholes, 8 flush tanks and one disposal plant. $130,000. Parkes Eng. Co., 202 Citizens Bank Bldg., engr.

Tex., Marshall — Taking bids sanitary sewers in various streets. $25,000. M. Ransey, city engr.

Calif., Irvington—May 26, by Trustees Irvington Sanitary Dist., 7½ mi. 6 to 12 in. sanitary sewers. G. A. Posey, Courthouse, Oakland, engr. Noted June 7.

BIDS RECEIVED

N. Y., Brooklyn—E. Riegelmann, boro pres., Boro Hall, May 7, sewers in 71st St., from S. Coenzo, 678 Glenmore Ave., 86⅔% of engrs. est ($19,571); Brooklyn Ave., from C. F. Vacharas, 645 40th St., 89% ($4,243); 45th St., from B. Peconi & Son, 570 18th St., 90% ($3,776); 80th St., from R. Iovino, 77% ($400); West 37th St. and 11th Ave., from Tozzi Contg. Co., 136 63rd St., 89.44% ($900) and 95.24% ($1,465) respectively. Noted May 1.

N. Y., Long Island City—M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., May 5, from Kennedy & Smith, Inc., 93 Amity St., Flushing, sewers in 7th Ave. $2,163; from J. Gallo, 293 Division St., Brooklyn, sewer in Clermont Ave. 'A" $8,848 "B" $7,830, in Sandol St. "A" $59,929, "B" $67,135; from J. F. Clancy, 460 Lockwood St., Astoria, in Justice St. $5,251, Lake St. $1,756, 91st Ave. $1,193. Noted May 1.

N. J., Sayreville—Vitr. tile and c.i. outfall sewers, etc., from Hammen & Co., 4612 Woodward St., Detroit, Mich., $114,000. Noted Apr. 17.

Pa., Phila. — Dept. Pub. Wks., Bureau Surveys, May 1, main sewer in Cottman St., from Pacifico Ventresco Co., 6325 Chew St., $27,501; completing Rock Run Main Sewer in Ogontz Ave., from E. F. Bennis, 641 East Chelten Ave., $38,516; main sewer in Venango St., from C. A. Conan, 133 North Vodges St., $88,218; removal of old sewer and constructing new sewer in Courtland St., and main sewer in Oakland St., from Ryan Constr. Co., 735 Real Estate Trust Bldg., $347,110 and $74,519 respectively; main sewer in Mifflin and Sanger Sts., from J. Lombardi, 601 Lincoln St., $76,112 and $22,782 respectively.

O., Ironton — Bd. Control, South Side sewerage system, from Reed & Lapsley, South Charleston, W. Va., $47,986.

Calif., Los Angeles — Los Angeles Co., Imhoff tank, sump and sludge bed, pump house, new sewer lines, etc., at county farm, from M. Matich, 1436 West 51st St., $38,500.

Calif., Los Angeles — Bd. Pub. Wks., Main St. storm and sanitary sewer, incl. 9,000 lin.ft. double barrel rein.-con. rectangular section 6 ft. 9 in. high and width varying from 6 ft. 5 in. to 9 ft. 7 in. for each section, 8,000 ft. rectangular rein.-con. section from 5 ft. high by 6 ft 7 in. wide to 6 ft. 9 in. high by 8 ft. 4 in. wide, 12,500 ft. rein.-con. rectangular section from 3 ft 5 in. by 5 ft. wide to 5 ft. high by 5 ft. 3 in. wide, 9,800 ft. non-reinforced arch section from 5 ft. 11 in. high by 7 ft. wide to 6 ft. 6 in. high by 7 ft. wide, 11,100 ft. circular non-reinforced concrete pipe from 60 to 70 in. diam., 59,000 ft. rein.-con. pipe from 24 to 66 in., 23,000 ft. cement pipe from 12 to 21 in., 20,000 ft. cement pipe sanitary sewer from 6 to 12 in., 787 catchbasins, 179 manholes, from P. R. Gadd, 1232 41st St., Sacramento, $2,706,000. Noted Apr. 10.

CONTRACTS AWARDED

Mass., Boston—Pub. Wks. Dept., sewerage works in Germantown Dist., West Roxbury, and main outlet to state metropolitan sewer in Dedham, to C. & R. Constr. Co., 3 Tremont Row, $165,742. Noted May 8.

N. Y., Long Island City—M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., sewers in Hunt St., to Peace Bros., Inc., 57 North Laurence St., Flushing, $5,029; California Ave., to Seaside Contg. Co., 193 Beach 108th St., Rockaway Beach, $5,493; 95th Ave., to P. J. Greenough Eng. Co., $705. Noted Apr. 24.

N. Y., New York—H. Bruckner, pres. Bronx Boro, 3rd and Tremont Aves., sewers in Pelham Parkway, to C. Petrillo Co., $45,882; Waring Ave., to F. Gabrielle, $26,897; rebuilding sewer in East 153rd St., to McLaughlin & Buckley, 337 East 134th St., $7,665. Noted May 1.

Md., Baltimore—Bd. Awards, furnishing and delivering special 30-in. Poppet valves for additions to Montebello Filters, Water Contr. 73, to Ellicott Machine Corp., Bush and Severn Sts., $5,186. Noted May 8.

O., Ashtabula—Sewage treatment works, to Rice-Jones Co., 1836 Euclid Ave., Cleveland, $135,000.

O., Cleveland—For 90 ft. of 6 ft. 3 in., 290 ft. 6 ft. and 290 ft. 5 ft. 9 in. concrete sewer in Kensington Rd., to Graham & Henderson, 1274 West 108th St., $47,410; 670 ft. 12- to 24-in. vitr. tile in Berdelle Ave., 530 ft. 12- to 24-in. vitr. tile in Krakow Ave. and 620 ft. 12- to 24-in. tile in Rathbun Ave., to Shannon & O'Shea, 3380 West 135th St., $2,603, $2,253 and $2,658 respectively; 1,090 ft. 12- to 24-in. vitr. tile pipe in Thrush Ave., to Yahya Bros., 3196 West 25th St., $7,825; 270 ft. 2 "C," 270 ft. 24-in. and 270 ft. 14-in. vitr. tile in East 68th St., to Donnelly & Miller, 1251 East 84th St., $8,361. Noted May 8.

O., Cleveland—For 4,220 ft. 24 in. vitr. clay sewer in Marcelle Rd., to Joseph Co., Prospect-4th Bldg., $34,953.

O., Cleveland—Cuyahoga Co., 9,150 ft., 8- to 18-in. vitr. clay sewers, Impvt. 51, to Salem & George Bros., Erie Bldg., $44,260. Noted May 8.

O., Massillon — Director Pub. Serv., Tuscarawas, North End, Wooster, Sippo and Wetmore trunk sewers, to United Eng. & Constr. Co., Sandusky, $228,000. Noted May 8.

O., Youngstown—Mahoning Co., sewers in Sect. 1 and about 7 mi. Sect. 2 Coitsville Sewer Dist., to F. George, Youngstown, $107,343 and $73,346 respectively.

Mich., Detroit—Dept. Pub. Wks., lateral sewer 4097 between Outer Dr., City Line, Peters and Beatrice Aves., to Rennie & Dibble Constr. Co., 11565 Oakwood Blvd., $20,780, also lateral 3939 between Dexter Blvd., Dorris, Livernois and LaBelle Aves., to Detroit Drainage Constr. Co., 400 Penobscot Bldg., $33,730. Noted May 1.

Mich., Detroit—Dept. Pub. Wks., Swain Ave. Outlet Sewer, to Greiling Bros. Co., Morell St., $58,930; Wyoming Ave. Sewer, Sect. 6, to R. A. Mercief, 5435 Wesson Ave., $124,626; also lateral sewers to Cousino Mercier Co., 13183 Wark St., lateral 4094 $10,364, 4103 $4,134, 4104 $8,065, 4112 $1,384, 3854 $7,286, 3855 $6,940; to W. Porath 1410 West Grand Blvd., Lateral 4105 $744; to Central Constr. & Eng. Co., Detroit, Lateral 4113 $1,884; to H. Ponterelli & Co., Wolverine Hotel, Lateral 4102 $13,278. Noted May 8.

Mich., Royal Oak—Oakland Co., deepening and widening 13,600 ft. Red Run Drain, Sect. 1, and constructing bridges, to Davis & Paupore, 3151 Leland Ave., Detroit, $39,169; 10,371 ft. Campbell Ave. Drain Sect. 2, 9 ft. 6 in. to 10 ft. diam., monolithic concrete, to R. A. Mercier, 5435 Wesson Ave., Detroit, $480,000; 17,865 ft. Campbell Ave. Drain, Sect. 3, 24 in. to 9 ft. diam., vitr. and monolithic concrete, to S. Healy, 6466 Epworth Blvd., Detroit, $439,677, furnishing 70 tons structural steel for bridge work to Beach Mfg. Co., Charlotte, $3,072. Noted May 8.

Wis., North Milwaukee—For 10,380 lin. ft. 8 in. vitr. clay sewers in 12 streets, to G. W. Mulholland, 2025 Oxford St., Rockford, Ill., $2 to $2.30 per lin.ft. Noted May 1.

Neb., Fremont—Laying 8.25 mi. sewers: to Wright Bros. Constr. Co., Fremont, c.i. pipe $25,064, Arthur A. Dobson Constr. Co., 1st Natl. Bank Bldg., Lincoln, concrete pipe $29,268.

Mo., Wellston (St. Louis, P. O.)—St. Louis Co. Sewer Dist. 3, 8 and 36 in. sewers, etc., here and vicinity, to W. F. Riley & Son, Pontiac Bldg., St. Louis, $67,000.

Calif., Los Angeles—See "Streets and Roads."

Calif., Los Angeles—Sect. 7, North Outfall Sewer, incl. 1,770 lin.ft. inverted rein.-con. syphon in 3 lines on concrete cradles, 1,714 lin.ft. double concrete pipe, etc., to G. Thompson, Brockman Bldg., $93,000. Noted Apr. 24.

Waste Disposal

PROPOSED WORK

N. Y., Eastchester (Greycourt, P. O.)—E. A. Mathews, clk. Town Bd., Village Hall, Tuckahoe, rejected bids May 7, incinerator plant, chimney and building on White Plains Rd., here. Will readvertise. J. F. Musselman, 101 Park Ave., New York City, consult. engr. Noted Apr. 24.

Fla., Miami—Election May 21, $75,000 bonds, incinerators. C. W. Murray, city engr.

Fla., Lakeland—Election June 10, $20,000 bonds, incinerator. C. C. Brown, Lakeland, engr.

BIDS RECEIVED

O., Euclid—For 1 story, brick and steel incinerator, from H. C. Masters Constr. Co., 2020 East 102nd St., Cleveland, $29,400. Noted May 1.

Pa., Connellsville — General contract 1 story, 40 x 50 ft. garbage disposal plant, 40 tons, brick, to Universal Destructor Co., Fulton Bldg., Pittsburgh. Engrs. est. $25,000.

Ont., Toronto—City, 2 and 3 story and basement, rein.-con., brick and steel garbage destructor, plain foundation, Wellington St. W., general contract to Wells & Gray, Confederation Life Bldg., $159,987, structural steel, to McGregor & McIntyre, 1139 Shaw St., $83,689.

Bridges

PROPOSED WORK

N. C., Fayetteville—City plans deck girder bridges over Ann St., Hawley Lane and Cool Spring St., also 2 large rein.-con. culverts over Blount Creek at Cool Spring St. $35,000. W. C. Olsen, c/o State Hy. Dept., Raleigh, engr.

Fla., Fort Myers — See "Streets and Roads."

Fla., Miami—Election May 21, $200,000 bonds, bridge over Miami River, North West 4th St. C. W. Murray, city engr.

Kentucky — State and Illinois Central R.R., 108 South 4th St., Louisville, plan overhead crossing over railroad on Earlington-Dawson Springs Rd., $60,000. W. S. Keller, highway engr.

S. D., Belle Fourche—Butte Co. plans concrete and steel bridge over Belle Fourche River. $36,000. C. A. Fry, aud.

Mo., Kansas City — Bd. Park Comrs. making plans steel and rein.-con. viaduct from 9th to Hardesty Sts. to east bluff of Blue River. $1,000,000. Harrington, Howard & Ash, Orear-Leslie Bldg., engrs.

Ont., London—Canadian Natl. Rys., New Union Sta., Toronto, having plans prepared replacing bridges on Wortley and Wharncliffe Rds., with heavier structures. $50,000. R. H. Fish, c/o owner, engr.

BIDS DESIRED

Maine—May 21, by State Hy. Comn., Augusta, Emerson Bridge over Wassalonsku River, 1 concrete clear span, 60 ft. in Waterville; Thomas Pond Bridge over outlet of Thomas Pond, one 15 ft. 3 in. concrete slab, concrete abutment, in Casco and Raymond; Jordan River Bridge, one 14 ft. concrete span, in Raymond. P. D. Sargent, ch. engr.

New Jersey—May 26, by State Hy. Dept., Trenton, two 61 ft. concrete encased plate girder spans, plain concrete pier and abutments for 30 ft. roadway, removing existing bridge, and constructing temporary bridge, etc. over Musconetcong River, Warren and Morris Counties; two 95 ft. concrete encased plate girder spans, one 34 ft. encased I-beam, eighteen 20 ft. rein.-con. approach spans, and 4 rein.-con. approach slabs, all supported on concrete piers and abutments for 30 ft. roadway, rein.-con. and asphalt paving, constructing temporary bridge and removing existing bridge, etc. over north branch of Raritan River and creek, Somerset Co. A. L. Grover, secy.

Pa., Tipton—May 19, by Comrs. Blair Co. (Hollidaysburg) four 46 ft. spans, rein.-con. and steel girder bridge over Little Juniata River, near here. D. N. McCloskey, Hollidaysburg, engr.

Md., Orange Grove (Mail Ilchester)—May 22, by Comrs. Baltimore Co., (Towson), suspension bridge over Patasco River, here. S. A. Green, Towson, road engr.

Alabama—June 9, by State Hy. Dept., Montgomery, 80 ft. steel span, 144 cu.yd. concrete, 5,100 lb. reinforcing, 150,000 ft. treated timber, 6,360 lin.ft. treated timber piles, 720 lin.ft. untreated timber piles, 5 test piles, Federal Aid Project 143, Butler Co. W. S. Keller, highway engr. Noted Sept. 27.

Bridges (Continued)

Tenn., Nashville—May 20, by Bd. Pub. Wks., cement, sand, reinforcing steel for repair of Sparkman and Jefferson St. bridges. Total incl. labor $300,000. Freeland, Roberts Co., Independent Life Bldg., consult. engrs. Noted Apr. 10.

Ohio—See "Streets and Roads."

Ohio—May 23, by Dept. Highways and Pub. Wks., Columbus, bridge approaches on 0.121 mi. road Lake Co., $22,284; 2 bridges, Jackson Co., $9,181; bridge in Morrow Co., $9,431. A. V. Donaheys, dir. highways.

O., Milford—June 6, by Hamilton Co., (Cincinnati), substructure and superstructure for 260 ft. steel truss bridge, incl. 470 tons steel, 800 cu.yd. 1:2:4 concrete, concrete piling, etc., $98,800. Former bids rejected. E. A. Gast, Court House, Cincinnati, engr. Noted Apr. 24.

Michigan—May 19, by State Hy. Dept. at office Comrs. Chippewa Co., Saulte Ste. Marie, Bridge 171601, one 28 ft. T-beam, Bridge 171602, 60 ft. concrete girder, 202.9 cu.yd. Class A concrete, 345.2 cu.yd. Class C concrete, 42,689 lb. steel.

Minnesota—See "Streets and Roads."

Missouri—May 20, by State Hy. Dept., Jefferson City, one 50 ft. and two 20 ft. I-beam spans, etc., Bollinger Co.; two 24 ft. rein.-con. deck girder spans, etc., Carter Co.; fifteen 20 ft. rein.-con. slabs two 45 ft. and one 25 ft. rein.-con. deck girder spans, etc. Chariton Co.; three 40 ft. rein.-con. deck girder spans, etc., Perry Co.; eight 20 ft. rein.-con. slab spans, etc., Cooper Co.; two 12 ft. rein.-con. slab spans, etc., Scotland Co.; one 40 ft. and two 30 ft. rein.-con. deck girder, four 10 ft. and three 12 ft. rein.-con. slab spans, etc., Wayne Co. B. H. Piepmeier, state highway engr.

Calif., Pasadena—Taking bids rein.-con. bridge, single arch span with 2 approach spans at each end, total length 423 ft., main arch 240 ft., Linda Vista Ave. From $95,000 to $100,000. W. C. Earle, city engr.

Wash., Seattle—June 27, by Bd. Pub. Wks., superstructure of steel bascule bridge over Lake Washington Canal at Montlake Blvd. J. D. Blackwell, city engr.; adv. E. N.-R. May 15. Noted Jan. 31.

Ore., Albany — June 12, by State Hy. Dept., Court House, Portland, bridge over Willamette River, here. R. A. Klein, Salem, state highway engr.; adv. E. N.-R. May 15.

Ore., Harrisburg—May 29, by State Hy. Dept., Court House, Portland, bridge over Willamette River, here. R. A. Klein, Salem, state highway engr.; adv. E. N.-R. May 15.

BIDS RECEIVED

New Jersey—State Hy. Dept., Trenton, May 5, concrete encased plate girder bridge, 67 ft. clear span with rein.-con. abutments, etc., over Beaver Brook, Sect. 11, Route 5, municipality of White Twp., Warren Co., from T. M. Gibbs Constr. Co., 215 South Broad St., Phila., Pa., $31,953. Noted Apr. 24.

N. J., Asbury Park — Monmouth Co. (Freehold), May 7, Bridge No. 0-10 over Deal Lake, on Sunset Ave., here, from Dover Boiler Wks., 90 East Dickerson St., Dover, $100,772. Noted Apr. 24.

Tennessee—See "Streets and Roads."

Ia., Des Moines—City, 84 ft. bridge, two 42 ft. spans, at Keosanqua and University Aves., 1,550 cu.yd. concrete girders, 239,600 lb. reinforcing, from O'Rourke Eng. & Constr. Co., 1215 Mulberry St., $52,100.

Montana—See "Streets and Roads."

Tex., Memphis—See "Streets and Roads."

Missouri — State Hy. Dept., Jefferson City, May 6, from Springfield Constr. Co., Springfield, 20 ft. rein.-con. slab span over stream, $13,319, 25 ft. rein.-con. deck girder span over creek, $1,966, 25 ft. rein.-con. deck girder span, etc., over creek, $1,938, all Barton Co.; from Pub. Wks. Constr. Co., Century Bldg., St. Louis, 20 ft. rein.-con. slab span over Fenton Creek branch, $5,234, thirteen 20 ft. rein.-con. slab spans over overflow of Merramec River, $18,935, 30 ft. I-beam span over drainage ditch, $2,300, 50 ft. steel truss span over Fenton Creek, $9,485, all St. Louis Co.; from Jones & Harlan, West Plains, four 20 ft. rein.-con. slab spans over creek, Texas Co., $5,198; from Republic Concrete Constr. Co., Republic, three 20 ft. rein.-con. slab spans over creek, Texas Co., $3,713; from Winstead & Gunter, Siloam Springs, Ark., 25 ft. rein.-con. deck girder span over stream, Barton Co., $2,103; Woods Bros. Constr. Co., Lincoln, Neb., two 200 ft. and two 120 ft. steel truss spans, etc., over Merramec River, St. Louis Co., $89,176; from Tibbetts & Tibbetts, Olathe, Kan., 30 ft. rein.-con. deck girder span over Whetstone Creek, Callaway Co., $9,852.

Tex., Austin — Travis Co. rein.-con. bridges and culverts (a) Oak Hill (b) South Burnet (c) Manor-Webberville and (c) Gregg-Manor Rds., from Evans & Greathouse, c/o J. A. Greathouse, 1706 West 6th St., (a, b, c and d) $31,434, K. T. Johnson, 500 West 15th St., (a and b) $14,702; bridges and culverts on (a) Govalle (b) Dickerson (c) Colton (d) Dessan-Cameron Rds., from R. G. Buckner & Sons, Round Rock (a, b, c and d) $33,865, J. F. Peterson, Bastrop, (a, c and d) $29,720, Austin Bridge Co., Coombs St., Dallas, (c) $13,537.

Tex., San Angelo—Tom Green Co. 340 ft. bridge over Middle Concho River, 12 mi. west of here, steel span concrete girder, masonry substructure, concrete piers, from Austin Bridge Co., Coombs St., Dallas, $29.108. Noted Apr. 17.

Calif., Los Angeles—Los Angeles Co., bridge over Rio Honda on Telegraph-Anaheim Rd., incl. 860 ft. wooden trusses on creosoted piles with wooden floor beams, 27 ft. roadway, (piles and floor beams furnished by county), from E. G. Perham, 725 North Ardmore Ave., $26,600. Noted Apr. 17.

Calif., San Francisco—City and San Francisco Co., timber trestle bridge for Bay Crossing pipe line of Hetch Hetchy project, from L. F. Youdall, Commercial and Savings Bank Bldg., Stockton, $167,645. Noted May 8.

CONTRACTS AWARDED

W. Va., Williamson—Mingo Co., Bridge 106: two 65 ft. rein.-con. arches, Bridge 108: one 40 ft. rein.-con. deck girder on masonry abutments, Bridge 109: 50 ft. rein.-con. through girder, masonry abutments, Bridge 110: 50 ft. rein.-con. through girder, masonry abutments, to Hatfield Constr. Co., 418½ 10th Ave., Huntington, $24,802. Noted Apr. 17.

North Carolina—See "Streets and Roads."

Georgia — State Hy. Dept., East Point, new bridge for Upson Co., to Bender & Duggan, Hawkinsville, $27,370. Noted Apr. 10.

Fla., Jacksonville—Duval Co., to Amer. Bascule Bridge Corp., Pensacola, draw bridge over Trout Creek, Scherzer bascule, 53 ft. clear span, $27,475, bridge over McGirts Creek, concrete girder slab on concrete piers, 37 ft. wide, 53 ft. clear span, $37,235; to A. B. Bentley & Sons, Atlantic Natl. Bank, bridge over Trout Creek, 1,133 ft. long, 23 spans, concrete girder, concrete piers, $179,244, bridge over McGirts Creek, 978 ft. long, 22 spans, $19,068. Noted Apr. 17.

La., New Orleans—Comn. Council, City Hall, general contract for overhead viaduct foot of Canal St., to O'Brien Constr. Co., Board Trade Bldg., $26,600, 112 tons steel and ornamental iron to Lukens Steel Co., 626 South Peters St., $12,267. Noted May 1.

Ohio—See "Streets and Roads."

Michigan — State Hy. Dept., Lansing, Bridge 500401, two 90 ft. through concrete girder spans, 498.4 cu.yd. Class A, 557.4 cu.yd. Class B and 191.2 cu.yd. Class C concrete, 184,240 lb. steel, to Swingle & Robinson, Dearborn, $37,091.

Mich., Royal Oak—See "Sewers."

Illinois—Dept. Pub. Wks. and Buildings, Div. Highways, Springfield, bridges (**36-12B Adams means Route 36 Sect. 12B, Adams Co.**) on 36-12 B and 36-13B, Adams, to Herrick Constr. Co., Carlinville, $65,332; on 3-33B Warren, to Huff & Gaines, Logan, Ia., $4,643; on 9-45B Peoria, to R. A. Cullinam, Tremont, $18,682; on 27-4B Carroll, to W. H. Shons Co., 109-111 Spring St., Freeport, $28,477; on 36-10B Adams, to Barker & Lively, Oblong, $12,844; on 43A-1B Menard, to H. C. Nieland, Monee, $10,647. Noted Mar. 13 and Apr. 10.

Wis., Tomahawk — Tomahawk Ave. Bridge, to Wausau Iron Wks., Wausau, additional concrete masonry in substructure of same classification at no greater depth than shown on plans $30, additional concrete masonry in substructure same classification at greater depth than shown on plans $45, concrete masonry in substructure reduced from that shown on plant $12, additional piling not shown on plant delivered $0.45, driven $1, total $78,347. Noted Apr. 24.

Wis., Wausau — Rein.-con. bridge over slough, West Washington St., to Wausau Iron Wks., 738 South 10th Ave., $34,000. Noted Mar. 6.

Ia., Bedford—Taylor Co., 3 pony truss spans, to Wickham Bridge & Pipe Co., 27 South 19th St., Council Bluffs, $34,100; 1 pony truss span and 41 box culverts, to Wilson Concrete Co., Red Oak, $36,410.

Ia., Harlan—Shelby Co., 3 I-beam spans, 1 pony truss span, 1 deck girder span and 18 concrete culverts on Project 269, to G. W. Condon, 510 Federal Reserve Bank Bldg., Omaha, $79,696. Concrete $21.88 per cu.yd., structural steel erected $0.085 per lb.

N. D., New England—Hettinger Co. (Mott), bridge over Cannon Ball River here, to W. W. Moyer, Bismarck, $30,799.

Wyoming—State Highway Comn., Cheyenne, steel superstructure, eight 80 ft. 8 in. spans, over Wind River near Riverton, Fremont Co., to Peppard & Fulton, 324 Midwest Bldg., Casper, $56,787. Noted Apr. 24.

Tex., Sanderson — See "Streets and Roads."

Wash., Everett—Comrs. Snohomish Co., 200 ft. steel superstructure over Hatt Slough, to Everett Constr. Co., Everett, $50,626. Noted April 24.

Que., Honfleur—Lake St. John Co. Council, concrete and steel bridge, to Emile Plourde, St. Prime, $48,000.

Que., Three Rivers — City, top flooring creosoted lumber for 1,200 ft. bridge over St. Maurice River, to B. J. Trepanier, St. Antoine St., $26,000.

Dams

PROPOSED WORK

Alabama—Columbus Electric Power Co., 1151 Broad St., Columbus, Ga., plans dam and other power facilities on Chattahoochee River at Bartletts Ferry. Plans provide for power station ultimate capacity 60,000 kw. and initial installment of 24,000 kw., to be connected with existing power system by 2.5 mi. transmission line. Will also make extensive developments on Georgia side of river at same place. $5,000,000.

Tex., Uvalde—Uvalde Co. and State had preliminary plans prepared dam across Frio River, for irrigation purposes, to affect 35,000 acres. $2,000,000. Terrell Bartlett, Calcasieu Bldg., San Antonio, engrs.

Railways

PROPOSED WORK

Florida—City of Miami, election May 21, $100,000 bonds, extending street railway. C. W. Murray, city engr.

Indiana—Southern Indiana Gas & Electric Co., Evansville, plans 1,200 lin.ft. double track and 1,700 ft. single track on Washington Ave. To exceed $25,000. F. J. Haas, vice-pres.

Oklahoma—Atchison, Topeka & Santa Fe R.R. Co., Arkansas City, Kan., making plans relaying rails in eastern Oklahoma line from Guthrie to Kansas City, in preparation for new cut off line to Kansas City. $250,000 or more. F. H. Frailey, Arkansas City, Kan., dir. engr.

CONTRACTS AWARDED

Missonri—Way & Structures Dept. of Receiver for Kansas City Railways Co., 1500 Grand Ave., Kansas City, will build unloading area at Fairyland Park, incl. wye tracks, iron fence, turnstiles, etc., $61,000, also at Kansas City Baseball Park, incl. 2 blocks double wye tracks, $33,000; reconstructing 13,516 ft. single track on Troost Ave., $121,000, 2,230 ft. double tracks on Grand Ave., $61,000, 9,960 ft. single track on Lexington Ave., (in Independence) $91,000, etc., by day labor.

Oregon—Southern Pacific R.R. Co., 65 Market St., San Francisco, Calif., 15.031 mi. Natron-cutoff from Kirk to Oakridge, to Henry & McFee, Northern Life Bldg., Seattle, Wash.

Excavation, Drainage, Irrigation

PROPOSED WORK

Tex., Crockett—Levee Dist. 2, Houston Co., voted $300,000 bonds, levee construction Trinity River. C. H. Milburn, Crockett, engr.

Tex., Uvalde—See "Dams."

Tex., Wharton — Wharton Co. voted $600,000 bonds conservation and reclamation work. B. M. Griffith, Wharton, temporary engr. Noted Apr. 17.

Oklahoma—Walnut D. D. 1, Cole, having surveys made 16 mi. drainage district to serve Walnut Creek Valley from Cole to South Canadian River. $200,000. R. J. Wheeler, Wynne Wood, engr.

Calif., Patterson—West Stanislaus Irrigation Dist., c/o E. N. Bryan, engr., Forum Bldg., Sacramento, plans to vote on bonds for pumps, canals, etc., to irrigate 36,000 acres, here.

BIDS DESIRED

Calif., Westley — J. E. Little, consult. engr., Westley, taking bids 3½ mi. levee, main canals, laterals, in connection with irrigation system, incl. 350,000 cu.yd. earthwork of which 100,000 to 125,000 cu.

Excavation, Drainage, Irrigation (Continued)

yd. is scraper work and 200,000 to 225,000 cu.yd. dragline work, here, for Burkhard Investment Co., Los Angeles.

Quebec—May 19, by N. Desjardins, acting secy. Dept. Pub. Wks., Ottawa, Ont., dredging at Cross Point, Louisville, (River du Loup en haut) and Nicolet River. $25,000.

BIDS RECEIVED

Minn., Minneapolis — Bd. Park Comrs., City Hall, May 6, dredging in Powderhorn Lake, 15th Ave. S. and 34th Sts., 140,000 cu.yd. excav., from Minneapolis Dredging Co., 2429 University Ave. S. E., $0.305 per cu.yd. Noted Mar. 20.

Calif., Blythe — Palo Verde Irrigation Dist., 36 mi. open drain, 1,450,000 cu.yd. excav., clearing 385 acres, 10,500 lin.ft. piling, 293,000 ft. lumber, 9,000 lb. reinforcing, 975 lin.ft. metal flume, 1,080 lin.ft. metal culverts, from L. D. Crawford, c/o Directors of Dist., Blythe, $323,000. Noted Apr. 24.

Calif., Santa Ana—Newhope D. D. 5,150 ft. 30 in., 9,058 ft. 24 in., 2,770 ft. 21 in., 3,080 ft. 18 in., 15,292 ft. 15 in., 3308 ft. 14 in. 7799 ft 12 in. 26,207 ft. 10 in. and 42,626 ft. 8 in. drain pipe and fittings, from Stanley Constr. Co., c/o owner, $40,229.

CONTRACTS AWARDED

Md., Baltimore — Bd. Awards, trench excav. for Water Dept., to M. and J. B. McHugh, 829 North Markoe St., Phila., Pa., $36,420. Noted May 8.

Ill., Rogers Park (Chicago P. O.)—St. Scholastica Academy, 7430 Ridge Blvd., excavation for 3 story and basement, brick, tile and concrete school, Ridge Blvd., to S. Schoen, 260 Chase Ave., Chicago. Archts. total est. $450,000. Noted Apr. 10, under "Buildings."

Neb., Norfolk—Sanitary Dist., 80,000 cu. yd. dragline grading and excav., to Morrow & Son, 430 Brandeis Theatre Bldg., Omaha, $0,124 per cu.yd. Noted May 1.

Streets and Roads

PROPOSED WORK

N. J., Orange—Essex Co. (Newark) plans grading and paving 1 mi. Scotland Ave., here, sheet asphalt on 6 in. concrete. $79,000. W. A. Stickel, co. engr.

N. J., Trenton—Mercer Co. plans paving 7 mi. Edinburg-Cranbury Rd. H. F. Harris, Court House, engr.

Pa., Pittsburgh—Soon takes bids grading, paving and curbing Allison St., $50,000; Middletown Rd., $65,000; Rossmore Ave., $54,000. Dept. Pub. Wks., City County Bldg., engrs.

W. Va., Clarksburg — Harrison Co. Sardia Dist., election May 27, $380,000 bonds for roads. C. N. Parrish, clk.

Fla., Daytona Beach — Voted $75,000 bonds for paving. E. A. Donovan, clk.

Fla., Fort Myers—Lee Co., election May 20, $1,250,000 bonds, constructing roads and bridges.

Fla., Fort Pierce—Election July 1, $70,000 bonds paving street intersections; $35,000, streets and viaducts under and over railroad tracks. M. Hallowes, Fort Pierce, engr.

Fla., Miami—Election May 21, $125,000 bonds, improving various streets. C. W. Murray, city engr.

Ala., Birmingham — See "Contracts Awarded."

La., Farmersville—Union Parish election May 20 $400,000 bonds, road work.

Tennessee — State Dept. Hys. & Pub. Wks., Nashville, plans grading, etc., 6 mi. Mont Eagle-Battle Creek Rd., 16 ft., Marion Co. J. G. Creveling, highway comr.

Tenn., Jackson—Voted $500,000 bonds, paving streets. E. R. Dike, city engr. Noted Mar. 6.

Ohio—Dept. Highways and Pub. Wks., Columbus, cancelled bids which were to be opened May 2, grading and paving 1.1 mi. Sect. "G-2" Bucyrus-Crestline Rd., Crawford Co., $31,712; also no bids May 2 bridge and approaches on Sect. "D-1" Pipe Co. Noted May 1.

O., Columbus — Making plans grading, laying necessary water services, sewer connections and paving 1,993 ft. alley west of 6th St. (Purdy alley), 20 ft., brick $13,078, concrete $11,506; 1,830 ft. Clinton Heights Ave., 24 and 26 ft., brick $47,489, asphalt $40,601. R. H. Simpson, city engr.

O., Dayton—Plans paving Wabash St., asphalt or rein.-con., $13,000; Victory St., Kentucky rock asphalt or concrete, $21,200; West 5th St., brick, $88,600; Leo St., brick, asphalt or concrete, $8,000. Work involves 10,000 sq.yd. new paving and 25,000 sq.yd. repaving. J. F. Hale, city engr.

O., Dennison—Bd. Control soon takes bids paving and laying sewers in North 3rd St., $35,000; paving ½ mi. 6th St., 35 ft., $40,000. W. E. Arnold, City Hall, engr.

O., Lisbon—Columbiana Co. improving with (a) concrete (b) brick (1) 1.138 mi. Wellsville-Salineville Rd., 20 ft. (2) 1.095 mi. St. Clair-Liverpool Twp. Rd., 20 ft., (3) 1.351 mi. Petersburg-Unity Rd., 20 ft. (4) 0.939 mi. Intercounty Highway, 20 ft. in Elkrun Twp. (5) 2.2992 mi. Intercounty Highway, 20 ft., in Fairfield and Elkrun Twps., from R. Stone Constr. Co., 433 Amer. Bank Bldg., Lima, (a1) $40,823 (b1) $55,861; J. D. Paxon, 119 West Main St., Salem, (a2) $39,111 (a4) $37,392 (a5) $81,659; Russel Bros. Co., Youngstown, (b3) $54,035; G. W. Hadley, Goldberg Bldg., Canton, (b4) $47,946 (b5) $110,485. Noted Apr. 10.

O., Steubenville—Soon takes bids paving and resurfacing Commercial and 50th Sts., vitr. brick. $28,948. C. N. Teaff, Steubenville, engr.

O., Wellsville — Plans repaving 1 mi. Lisbon St., 30 ft., brick on concrete. $45,000.

Ind., Crown Point—Lake Co. plans grading and graveling 5.5 mi. Carl E. Nelson Rd., 24 ft. $63,173. C. K. Wallace, Crown Point, engr.

Ind., Noblesville — Hamilton Co. plans concrete paving 24,288 sq.yd. Crum Rd. $58,414. J. S. Shannon, Noblesville, engr.

Michigan — State Hy. Dept., at office Comrs. Lenawee Co., Adrian, takes bids about June 2, grading and surfacing 5.737 mi. Federal Aid Project 95, 35,137 cu.yd. excav., 66,111 sq.yd. concrete.

Michigan — State Hy. Dept. at office Comrs. Washtenaw Co., Ann Arbor, takes bids about June 2, grading 3.578 mi. Federal Aid Project 78 A 1 and 2, 86,549 cu. yd. excav.

Michigan — State Hy. Dept. at office Comrs. Huron Co., Bad Axe, grading and surfacing 4.038 mi. State Trunk Line Rd. 27-19, Huron Co., 38,527 sq.yd. 2 course gravel, from Harbor Beach Constr. Co., Harbor Beach, $58,794. Noted Apr. 17.

Michigan — State Hy. Dept. at office Comrs. Wexford Co., Cadillac, grading and surfacing to 16 ft. 2.856 mi. State Trunk Line Rd. 42-1, Sects. A and B, 26,805 sq.yd. gravel, from J. A. Swanson, LeRoy, $30,354; grading and surfacing to 20 ft. 0.492 mi. State Trunk Line Rd. 55-4, Sect. B. 5,774 sq.yd. concrete, (1,750 bbl. cement furnished by state) from Wexford County Rd. Comn., Cadillac, $15,092. Noted Apr. 17.

Michigan — State Hy. Dept. at office Comrs. Iron Co., Crystal Falls, grading and surfacing to 18 ft. width, 1.932 mi. State Trunk Line Rd. 12-42, Sect. B, Iron Co., 20,712 sq.ft. bituminous macadam, from Iron County Rd. Comn., Crystal Falls. $39,513. Noted Apr. 17.

Michigan — State Hy. Dept., Lansing, grading and surfacing 0.993 mi. State Trunk Line Rd. 11-37, and 20-22, Mason Co., from L. I. Goldberg, Scottville, $31,780.

Michigan — State Hy. Dept., Lansing, takes bids about May 20, grading and surfacing 1.1 mi. State Trunk Line Rd. 10-28, Saginaw Co., concrete, (City widening to 54 ft. with sheet asphalt on 7 in. concrete), 8,507 cu.yd. excav., 12,904 sq.yd. concrete base, (foregoing quantities states share only), also 1.893 mi. State Trunk Line Rd. 24-27, B, Saginaw Co., concrete, (City widening to 54 ft. with sheet asphalt on 7 in. concrete), 13,660 cu.yd. excav., 22,215 sq.yd. concrete pavement, (foregoing quantities states share only). G. C. Dillman, ch. engr.

Michigan — State Hy. Dept. at office Comrs. Calhoun Co., Marshall, grading and surfacing to 20 ft., 2.072 mi. State Truck Line Rd. 29-12 Calhoun Co., 22,235 sq.yd. concrete, from Rockford Constr. Co., Rockford, O., $34,757. Noted Apr. 17.

Michigan — State Hy. Dept. at office Comrs. Ontonagon Co., Ontonagon, grading and surfacing to 16 ft., 7.34 mi. State Trunk Line Rd. 26-12, 19,933 tons stamp sand, etc., from Smith-Sparks Constr. Co., Box 184, Houghton, $115,446. Noted Apr. 17.

Illinois—Dept. Pub. Wks. & Buildings, Div. Highways, Springfield, rejected bids paving 0.96 mi. Route 7, Sect. X, LaSalle Co.; 6.39 mi. Route 46, Sect. 461, 3 mi. Route 46, Sect. 463 and 4.97 mi. Route 46, Sect. 464, Cook Co. Noted Mar. 27 and Apr. 10.

S. D., Sioux Falls—Plans paving 32 blocks 18th St. between 4th and Harvard Aves. $100,000. W. C. Leyse, city aud.

Mo., Independence — Takes bids about June 1 concrete paving 1½ mi. around city square and to west city limits. R. H. Jones, Independence, engr.

Tex., Anson—Jones Co. Special Rd. Dist. voted $500,000 bonds constructing roads. $750,000 State and Federal aid granted. J. F. Lindsey, co. judge. Noted Apr. 24.

Tex., Baird—Callahan Co. (a) grading (b) concrete bridges (c) bituminous macadam surfacing 9.62 mi. Bankhead Highway, Sect. A, Federal Aid Project 52-A, from Womack Constr. Co., Sherman, (a, b and c) $218,881; Tibbets Constr. Co., 209½ West 8th St., Ft. Worth, (a and c) $159,436; McCall Eng. Co., Amicable Bldg., Waco, (b) $55,683. Noted Apr. 17.

Tex., Cameron—Milam Co. voted $75,000 bonds, Farrier Highway in Rd. Dist. 10. A. F. Mitchell, co. engr. Noted Apr. 3.

Tex., Del Rio—Val Verde Co. making plans grading and gravel surfacing 8.4 mi. State Highway 41, Carter Valley Rd., 16 ft. $81,400. G. M. Jowers, co. engr.

Tex., Waco—Election May 31, $250,000 bonds, permanent paving various streets. V. G. Koch, city engr.

Tex., Wichita Falls—Wichita Co. Rd. Dist. 1 voted $500,000 bonds, roads radiating from Electra. J. M. Isbell, co. engr. Noted Apr. 24.

Okla., El Reno — Canadian Co. plans grading and paving 6 mi. Meridian Highway, 61,000 sq.yd. concrete, 42,000 cu.yd. excav. $175,000. F. D. Powell, El Reno, engr.

Okla., Grandfield — Plans grading and paving 9 blocks Simpson and 6th Sts., 13,700 sq.yd. concrete, 5,700 lin.ft. curbing, 4,000 cu.yd. earth and 1,500 cu.yd. rock excav. $45,000. V. V. Long, 1300 Colcord Bldg., Oklahoma City, engrs.

Okla., Tecumseh — Pottawatomie Co. plans grading and gravel surfacing 9 mi. Tecumseh-Shawnee Rd., 18 ft., 90,000 sq. yd. gravel and 56,000 cu.yd. excav. $75,000. F. D. Brown, Shawnee, engr.

Nev., Reno—Washoe Co. plans widening from 9 to 19 ft. and concrete paving 3.67 mi. road between cemetery and Lawtons.

Wash., Chehalis—City Clerk takes bids June 1, 6 in. concrete paving, curbing, etc., 20 blocks Alfred St. et al., 24 ft. wide. $80,000. W. C. Sturdevant, city engr.

California—Having plans prepared surfacing 2 mi. Chico-Orland Highway, Butte Co., asphaltic concrete. To exceed $25,000. R. M. Morton, c/o State Highway Dept., Sacramento, engr.

California—State Highway Comn., Sacramento, having plans prepared coast highway link across Rindge Estate, Los Angeles Co. To exceed $25,000. R. M. Morton, state highway engr.

California — Orange Co. (Santa Ana), and Riverside Co. (Riverside), plan highway over mountains from Elsinore to San Juan Capistrano via Sievers Canyon. To exceed $100,000.

Calif., Alturas — Modoc Co. had plans prepared improving 5½ mi. Fandango unit of Willow Ranch-Fort Bidwell Highway, 5,000 cu.yd. excav., 2,000 cu.yd. gravel surfacing. L. S. Smith, clk.

Calif., Glendale — Had plans prepared improving Monterey Rd., 85,400 sq.ft. grading, 55,150 sq.ft. 3 in. oil macadam, 12,500 sq.ft. cement walks, 3,300 lin.ft. concrete curb, ornamental lighting system, etc.; Cleveland Rd., 90,900 sq.ft. grading, 47,410 sq.ft. 3 in. macadam, 10,060 sq.ft. cement walks, 7150 sq.ft. concrete gutter, 3,650 lin.ft. concrete curb, etc. B. F. Dupy, city engr.

Calif., Inglewood—Had plans prepared improving Nectarine St. between Cedar and Nash Aves., 75,375 sq.ft. grading, 2,473 lin.ft. curb, 12,326 sq.ft. walks, 46,126 sq. ft. 5 in. asphaltic concrete. A. W. Cory, city engr.

Calif., Madera — Madera Co. plans to vote on $150,000 to $500,000 bonds, highways.

Calif., Martinez—Contra Costa Co. having plans prepared paving 6 mi. highway in town of San Pablo, Rd. Dist. 3, 2½ in and 3½ in. asphaltic concrete with 1½ in. Warrenite bituminous surface. To exceed $150,000. R. L. Calfee, 221 South 22nd St., Richmond, engr.

Calif., Oakland — Plans to extend and improve 14th St. $40,000. W. W. Harmon, city engr.

Calif., Orange—Had plans prepared improving Maple, Almond, Washington Sts., etc., 5 and 6 in. concrete pavement, concrete curbs and walks, vitr. sewers. To exceed $25,000. C. D. Lester, clk.

Calif., Pasadena—Having plans prepared grading and paving Green St., asphalt on concrete, curbs, gutters, walks, street lighting system, etc. $350,000. W. C. Earle, city engr.

Calif., Richmond — Had plans prepared grading and paving portion McLaughlin and Lassen Sts., etc., 8 in. standard macadam, concrete curbs, gutters, walks, etc. H. D. Chapman, city engr.

Calif., Riverside—Having plans prepared improving portion Victoria Ave. To exceed $25,000. L. Nafzgar, city engr.

Calif., San Francisco—Improving Palou Ave., between Phelps and Rankin Sts., 5,300 cu.yd cut, 2,700 lin.ft. concrete, curb, 2,375 sq.ft. artificial stone walks, 72,900 sq.ft. concrete, from Raisch Impvt. Co., 46 Kearny St., $30,972. Noted Apr. 24.

Streets and Roads (Continued)

Calif., Santa Cruz—Had plans prepared improving Pacheco Ave. between Soquel and Martin Sts., 87,500 sq.ft. grading to subgrade, 87,500 sq.ft. 5 in. concrete, 4,900 lin.ft. detached curb. H. S. Williams, city engr.

Quebec—Dept. Pub. Highways, Quebec, soon takes bids 8 mi. highway from Hull to Aylmer asphalt. $60,000.

Que., Montreal — Plans asphalt paving Iberville St. from Masson St. to limits, 30,168 sq.yd. asphalt on concrete, 11,850 lin.ft. straight curbstone, 800 lin.ft. circular curb, 30,168 sq.yd. grading. $193,414. H. Terreoult, City Hall, engr.

Ont., Blythe — Having plans prepared 20,000 sq.yd. concrete pavement. $50,000. T. R. Patterson, Goderich, engr.

BIDS DESIRED

Massachusetts—May 20, by Dept. Pub. Wks., Div. Highways, Boston, rein.-con. and bituminous macadam on 25,300 ft. highway in Lakeville; bituminous macadam paving 26,000 ft. highway in Essex and Ipswich, and 13,000 ft. highway in Southampton. W. F. Williams, state highway comr.

N. Y., Brooklyn—May 21, by E. Riegelmann, boro pres., Boro Hall, repaving portion of 15th and Lafayette Aves., East 14th and Cumberland Sts., paving Kingston Ave., all asphalt on concrete; curbing and asphalt paving 41st St.; timber pile jetty adjacent to Groyne 12 near foot of West 10th St., Coney Island.

N. Y., Highland Falls—June 2, by Bd. Village Trustees, rein.-con. pavement; adv. E. N.-R. May 15.

N. Y., New York—May 23, by J. Miller, pres. Manhattan Boro, Municipal Bldg., curbing, flagging, reflagging and asphalt paving West 177th St., Payson Ave., West 176th St. from Haven to Fort Washington Aves., West 176th St. from Bway. to Fort Washington Ave.; altering and improving sewer in Beaver St.

N. J., Audubon—May 20, by Boro Comrs improving alleys north of Merchant St, Edgewood, Audubon, 4th, Hampshire, West Atlantic, and East Atlantic Aves., Pine, Oak and Chestnut Sts., Princeton, Cornell, Yale and Lafayette Rds. J. J. Albertson, Court House, Camden, boro engr.; adv. E. N.-R. May 15.

N. J., Orange—May 20, by G. C. Bergen, purch. agt. Essex Co., Court House, Newark, paving 10,500 sq.yd. Scotland St., here, 3 in. sheet asphalt on 6 in. concrete. $79,000. W. A. Stickel, Court House, Newark, engr.

N. J., Plainfield—May 26, by State Hy. Dept., Trenton, constructing Route 9, Sect. 11, Lincoln Ave., here, Middlesex Co. A. L. Grover, secy.; adv. E. N.-R. May 15. Noted Apr. 24 under "New Jersey."

Pennsylvania — June 3, by State Hy. Dept., Harrisburg, 58 mi. road on 19 Projects in 13 counties; adv. E. N.-R. May 15.

Pa., Eldersville — May 20, by Supervs. Jefferson Twp., c/o M. D. Ridgeway, reconstructing 16,158 lin.ft. one course rein.-con. from West Virginia State line to intersection of road to Hanlen Sta., 16 ft. $100,000.

Delaware—June 4, by State Hy. Dept., Dover, 4.05 mi. Basin Cor.-New Port-Lincoln Highway, Contr. CN-20; 5.39 mi. Willow Grove-Wyoming Rd., Contr. CK-22; 3.24 mi. Mission-Gumboro Rd., Contr. CS-33; adv. E. N.-R. May 15.

Maryland—May 27, by State Rd. Comn., Baltimore, concrete paving highways in Frederick, Montgomery, Anne Arundel and Caroline Counties, Contrs. F-75, M-50, AA-40 and Co-23; gravel surfacing in St. Marys Co., Contr. SM-27. J. N. Mackall, chn.; adv. E. N.-R. May 15.

Md., Baltimore—May 21, by Bd. Awards, paving, Footway Contr. 78, 4,900 sq.yd. concrete, 1,400 cu.yd. grading; paving 5th Ave., 15,000 sq.yd. asphalt. Jackson St., 1,000 sq.yd. asphalt. Gay St., 4,000 sq.yd asphalt; Spring St., 800 sq.yd. asphalt. B. L. Crozier, City Hall, highways engr.

Md., Baltimore—May 21, by Bd. Awards, grading, surfacing, etc., area around Guilford St., York and Cold Spring Lane, 8,391 cu.yd. excav., 15,334 sq.yd. surfacing, $26,000; at Montebello School, Harford Rd. and 32nd Sts., 10,000 cu.yd. earth fill, 3,500 sq.yd. surfacing macadam, etc., $38,000; playground at school 65, Poplar Grove St. and Lanvale St., 6,000 cu.yd. earth excav., 800 lin.ft. vitr. brick edging, etc., $20,000. H. G. Perring, Hearst Tower, superv. engr. Public Impvt. Comn.

Md., Towson—May 22, by Comrs. Baltimore Co., concrete paving 0.9 mi. road, Group 13, Caves Rd. from Park Heights Ave. to Dover Rd. $25,000. S. A. Green, road engr.

W. Va., Beckley—May 29, by Raleigh Co., constructing roads in Slab Fork Dist: grading Amigo-Egeria and Rools Gap-Pemberton Rds., hardsurfacing Besoco-Odd Rd., Besoco-Amigo Rd., McAlpin-Sophia Rd. and road from Slab Fork to State Route on Tams Mt.; Shady Springs Dist: hardsurfacing road from Low Gap School toward Ghent Rd. J. Smith, clk.

Fla., Tampa—May 20, by B. G. Wall, mayor, grading and paving Harbor and McKay Sts., 8,000 sq.yd. vitr. brick and 3,600 lin.ft. granite curbing R. D. Martin, city engr.

Fla., Tavares—May 20, by City Council, paving Barrow, Sinclair, Texas and Joanna Sts., $37,990, New Hampshire, Rockingham and Distow Sts., etc., $37,990, foregoing 30 ft.; Irma, Ruby, Maud and Alford Sts., 24 and 47 ft., $40,000; Tavares Blvd., Caroline and Ianthe Sts., 24 ft., $38,000; Lakeshores, Rockingham, St. Clair, Givens and Clifford Sts., 16 and 24 ft., $35,981. H. S. Jandon Eng. Co., Leesburg, engrs.

Alabama—June 9, by State Hy. Dept., Montgomery, 11.729 mi. Louisville-Clayton Rd., 18 and 26 ft., Federal Aid Project 114-B, Barbour Co., 15.43 acres clearing, 121,992 cu.yd. excav., 27,896 sta.yd. overhaul, 474.76 cu.yd. Class B concrete, 4,800 cu.yd. gravel, 500 half-mile units overhaul on gravel, 32,500 cu.yd. sand clay, 20,000 half-mile units overhaul on sand clay, 30,000 sq.yd. mixing sand and clay, overhead crossing at Louisville involves 42,711 ft. treated timber; 9.487 mi. Georgiana-Conecuh Co. line Rd., 18 and 26 ft., Federal Aid Project 143, Butler Co., 50.46 acres clearing, 101,404 cu.yd. earth and 5,992 cu.yd. rock excav., 13,346 sta.yds. overhaul, 25,168 cu.yd. sand clay surfacing, 1 mi. haul, 23,400 half-mile units additional haul on sand clay, 22,500 half-mile units additional haul on gravel, 5,277 cu.yd. gravel surfacing, 1 mi. haul, 104.04 cu.yd. Class B and 382.5 cu.yd. Class A concrete, 46,869 sq.yd. mixing sand and clay. W. S. Keller, highway engr.

Ala., Decatur—May 26, by Bd. Revenue Morgan Co., surface treating and asphalt bituminous surfacing 75 mi. hard surfaced roads. M. S. Bingham, co. engr.

Ala., Huntsville — June 2, by Comrs. Madison Co. paving 2.25 mi. West Clinton St. and Triana Pike, 23,480 sq.yd. cement concrete (base course and leader curbing), 22,145 sq.yd. sheet asphalt, warrenite bitulithic, Travis double seal or bituminous concrete (modified Topeka type) or Portland cement concrete. Bridges and culverts on above roads, involve 246 cu.yd. 1:2:4 concrete, etc. S. W. Fleming, ch.

Louisiana—May 24, by State Hy. Comn., Reymond Bldg., Baton Rouge, 8.59 mi. State Project 324, Sect. B, Chef Menteur-Rigolets Highway, Orleans Parish, incl. dredging canal along west side of highway. J. M. Fourmy, ch. engr.

Louisiana—May 27, by State Hy. Comn., Reymond Bldg., Baton Rouge, 4.55 mi. Federal Aid Project 146 B, Ruston-Arkansas Highway, Lincoln Parish, also furnishing gravel for project; 7.94 mi. State Project 89, Sect. B, New Roads-Simmesport Highway, Pointe Coupee Parish, and 1.44 mi. State Project 89, Sect. D-1, Morganza-Ravenwood Highway, Point Coupee Parish; 5.23 mi. Federal Aid Project 147, Ruston-Arkansas Highway, Union Parish, also furnishing gravel for project. J. M. Fourmy, ch. engr.

La., Bastrop—May 27, by Police Jury Morehouse Parish, 7.7 mi. Route 15, and 7.7 mi. Route 16. J. L. White, parish engr.

Ohio—May 23, by Dept. Highways and Pub. Wks., Columbus, concrete widening 6.752 mi. roads in Huron Co.; resurfacing with asphalt or tar 1.989 mi. Portage Co., with bituminous concrete 1.536 mi. Richland Co.; surface treating 20.03 mil. roads in Lucas Co.; grading and building bridges on 13.666 mi. roads in Meigs and Portage Counties; grading, bridging and paving 104.5216 mi. roads in Athens, Butler, Crawford, Darke, Hancock, Hardin, Harrison, Hocking, Guernsey, Lake, Logan, Lorain, Mahoning, Medina, Miami, Morrow, Shelby, Stark, Trumbull, Wayne, Williams and Wyandotte Counties. A. V. Donaheys, dir. highways.

O., Cleveland—May 21, paving Edgewater Blvd., asphalt macadam. $40,000. S. Newman, City Hall, engr.

O., Cleveland—May 21, by Cuyahoga Co., paving Fitzwater-River Rd. $114,750. F. Lander, Court House, engr.

O., Cleveland — May 26, by Bd. Educ., grading, resurfacing, masonry, etc., Bolton School grounds. $25,000. W. R. McCormack, East 6th St. and St. Clair Ave., engr.

O., Columbus—May 20, by W. H. Duffy, dir. Pub. Serv., grading, laying necessary water services, sewers and paving 3,460 ft. Manhattan Ave. and Hanford St., 26 ft., brick $66,757, asphalt $55,552; 326 ft. Pomola Ave., 24 ft., brick $6,092, asphalt $4,761.

O., Lisbon—July 1, by Columbiana Co., grading 3.2 mi. Wellsville-Salineville Rd., 18 ft., Yellow Creek Twp. $39,000. L. C. Kirk, Lisbon, engr.

O., Massillon—May 20, by Bd. Control, paving Wallace, High, Commonwealth and Jarvis Sts., 15,394 sq.yd. brick, sheet asphalt, asphaltic concrete, warrenite, bitulithic, willite or rein.-con. C. E. Rice, city engr. Noted Jan. 10 and May 8.

Ind., Crown Point—May 19, by Comrs. Lake Co., grading and gravel surfacing 11 mi. W. J. Fulton Rd., 30 ft. $170,000. Noted May 8.

Ind., Indianapolis—May 17, by Comrs. Marion Co., paving W. O. Lee Rd., 30,624 sq.yd. concrete on concrete. $78,200. Noted May 8.

Ind., Rushville—June 3, by City Council, paving 0.5 mi. Park Blvd., alternate bids on penetration, asphalt, brick and wood block. A. L. Stewart, Rushville, engr

Michigan—May 20, by State Hy. Dept., at office Comrs. Kent Co., Grand Rapids, grading 4.836 mi. State Trunk Line Rd. 13-50, Sect. C, 55,988 cu.yd. excav., etc.

Michigan—May 20, by State Highway Dept. at office of Comrs., Schoolcraft Co., (Manistique), State Trunk Line Rd. 27-2 Sect. A, 17,166 cu.yd. earth excav., 3,31 lb. steel, 32,698 sq.yd. 2 course gravel. G. C. Dillman, ch. engr.

Michigan—May 20, by State Highway Dept., at office Comrs. Saginaw Co., Saginaw, widening State Trunk Line Rd. 24-27 Sect. B, 22,215 sq.yd. 2½ sheet asphalt on 7 in. concrete, 13,660 cu.yd. earth excav., (5,168 bbl. cement furnished by state); State Trunk Line Rd. 10-28, 12,904 sq.yd. asphalt on concrete, 8,507 cu.yd. earth excav. (2,991 bbl. cement furnished by state). G. C. Dillman, ch. engr.

Michigan—May 21, by State Hy. Dept. at office Comrs. Hillsdale Co., grading and surfacing 3.174 mi. State Trunk Line Rd. 34-2, Sects. B, C, D and E, 17,243 cu.yd. excav., 34,746 sq.yd. concrete pavement, etc.

Michigan—May 21, by State Hy. Dept. at office Comrs. Muskegon Co., grading and surfacing 1.045 mi. State Trunk Line Rd. 11-19, 6,916 cu.yd. excav., 21,486 sq. yd. concrete pavement.

Michigan—State Highway Dept., at office of Comrs. St. Joseph Co., (Centerville), taking bids and opens same about May 22. State Trunk Line Rd. 60-3, 51,826 cu.yd. excav., 93,717 sq.yd. concrete or bituminous macadam. Cement furnished by state if concrete. G. C. Dillman, ch. engr.

Michigan—May 22, by State Hy. Dept. at office Comrs. Lapeer Co., Lapeer, grading and surfacing 0.68 mi. State Trunk Line Rd. 36-5, Lapeer Co., 5,667 cu.yd. excav., 12,448 sq.yd. asphalt, concrete or bituminous concrete, 786 lin.ft. 8 in. and 1,606 ft. 10 in. storm sewer.

Michigan—May 23, by State Hy. Dept at office Comrs. Huron Co., Bad Axe, grading and surfacing 0.41 mi. State Trunk Line Rd. 19-8, Sect. B, concrete, bituminous concrete or sheet asphalt.

Michigan—May 23, by State Hy. Dept., at office Comrs. St. Joseph Co., Centreville, grading and surfacing 8.746 mi. State Trunk Line Rd. 60-3, 51,826 cu.yd. excav., 93,717 sq.yd. bituminous macadam or 7 in. concrete surface. G. C. Dillman, Lansing, ch. engr.

Michigan—May 26, by State Hy. Dept. at office Comrs. Washtenaw Co., Ann Arbor, grading and surfacing 5.2 mi. State Trunk Line Rd. 92-2, 3,763 cu.yd. excav., 6,892 sq.yd. concrete pavement, 2,162 lin.ft. storm sewer. G. C. Dillman, Lansing, ch. engr.

Michigan—May 26, by State Hy. Dept. at office Comrs. Van Buren Co., Paw Paw, grading and surfacing to 20 ft. 2.628 mi. Federal Aid Project 101, Sec. C, Van Buren Co., 31,410 sq.yd. concrete, bituminous concrete, or sheet asphalt, also 3.187 mi. State Trunk Line Rd. 17-14, 37,400 sq.yd. concrete, bituminous concrete or sheet asphalt, G. C. Dillman, ch. engr.

Michigan—May 27, by State Hy. Dept. at office Comrs. Otsego Co., Gaylord, grading and gravel surfacing 4.276 mi. State Trunk Line Rd. 32-7, Sect. B, 24,794 cu.yd. excav., 40,572 sq.yd. gravel. G. C. Dillman, Lansing, ch. engr.

Ill., Galesburg—May 20, by Bd. Local Impvts., grading, paving, etc., West North

Streets and Roads (Continued)

St., 5,034 sq.yd. vitr. brick, 3 462 lin.ft. combined curb and gutter, 2,400 cu.yd. excav., etc. A. L Richey, City Hall, engr. Noted Apr. 17.

Ill., Quincy — May 20, by Bd. Local Impvts., asphalt paving. W. P. Bushnell, city engr.; adv. E. N.-R. May 15.

Ill., Vandalia—May 29, by City Clerk, paving 5th St., 1,938 cu.yd. excav., 11,432 cu.yd. brick, concrete, rock asphalt or Warrenite, 6,870 lin.ft. concrete curb, etc. $46,865. A. H. Beard Eng. Co., 616 Title Guaranty Bldg., St. Louis, Mo., engrs.

Wis., Horicon—May 27, by E. H. Higbee, city clk., concrete paving, etc., Classon, East Lake, Main Highway, Bridge and Barstow Sts., 18,300 sq.yd. concrete with or without reinforcement, 8,600 cu.yd. earth excav., 11,260 lin.ft. concrete curb and gutter, also 3,950 ft. 10- to 15-in. storm sewers. E. B. Parsons, Jefferson, engr.

Wis., North Milwaukee—May 20, by W. E. Chase, city clk., paving 22,661 sq.yd. with one course concrete, vibrolithic concrete, bituminous concrete or sheet asphalt, grading 15,102 cu.yd. on Webster Blvd., 34th, 33rd, 32nd and 38th Sts., from Hampton Rd. to Highland and from Adams to Ruby Sts. H. C. Webster, 216 West Water St., Milwaukee, engrs.

Wis., Waukesha—May 26, by Bd. Pub. Wks. paving Madison St. and Bway., 8,750 sq.yd. one course concrete alternate bid with and without reinforcing, 1,290 lin.ft. concrete curb and gutter, 8,200 cu.yd. earth excav., etc. $25,000. W. G. Caldwell, 735 Grand Ave., engr.

Wis., Waupaca—May 31, by F. A. Houseman, city clk., paving 23,000 sq.yd. various streets, one course concrete, brick, asphalt on concrete or asphalt on macadam. Private plans.

Ia., Des Moines — May 19, by auditor Polk Co., gravel surfacing 17 mi. highways, 26 ft., 17,000 cu.yd. gravel. To exceed $25,000. F. O. Laing, co. engr.

Minnesota—May 27, by State Hy. Dept., St. Paul, 5.4 mi. State Project 1-26, Federal Aid Project 321, south of Owatonna, 57,444 sq.yd. concrete paving; 5.5 mi. State Project 8-42, Federal Aid Project 302, between Lengby and east Polk Co. line, 132,611 cu.yd. excav.; 13 mi. State Project 14-23 Federal Aid Project 355, between Winthrop and West Sibley Co. line, 141,000 cu.yd. excav.; 6 mi. State Project 15-30, Div. C, Federal Aid Project 341, between Winthrop and south Sibley Co. line, 88,000 cu.yd. excav., Bridge 4181, 23 ft., and Bridge 4182, 30 ft., concrete; 14.7 mi. State Project 64-22, Federal Aid Project 353, between Rothsay and Barnesville, 194,000 cu.yd. excav., 6 concrete bridges from 30 ft. to 46 ft. State Highway Dept., St. Paul, engrs.

Minn., Duluth—May 25, by H. Fischer, city comr., paving Gladstone St., 11,260 sq.yd. concrete, 7,370 ft. concrete curb, etc., $64,860; 1.5 mi. East 4th St., 62 ft., grading for street railway track extension, 32,700 cu.yd. earth and 6,400 cu.yd. rock excav. J. Wilson, city engr.

Minn., Grand Rapids—May 20, by T. Erskine, aud. Itasca Co., improving 18 mi. Cut Foot Sioux Forestry Project, gravel surface, 3,620 cu.yd. stripping, load and haul to mile point 7,996 cu.yd., beyond mile point 47,578 cu.yd. $26,000. H. A. LeSueur, Grand Rapids, engr.

Minn., Le Sueur Center—May 20, by S. McMillan aud. Le Sueur Co., Job 2304, State Rd. 13, 49,329 cu.yd. excav., 47,515 cu.yd. overhaul, etc.; Job 2305, State Rd. 20, 42,340 cu.yd. excav., 70,100 cu.yd. overhaul, etc. $34,000. R. F. Nichols, Le Sueur Center, engr.

Minn., St. Paul—May 20, by H. W. Austin, city purch. agt., paving East 7th St. between Hope St. and Phalen Ave., 18,412 sq.yd. resurfacing with 3-in. sheet asphalt, 850 sq.yd. 3-in. sheet asphalt with new 6-in. concrete base; curbing various streets, 26,972 lin.ft. straight concrete curb and 1,924 lin.ft. radius curb. G. M. Shepard, city engr.

Missouri—May 20, by State Hy. Dept., Jefferson City, grading and graveling 284,318 sq.yd. roads in Mississippi, Scotland, Crawford, Morgan, Cooper, Cedar, St. Charles, Wayne and Perry Counties; concrete surfacing 50,017 sq.yd. road, Platte Co.; grading and chat surfacing 5,738 sq. yd. road, Dade Co.; grading roads in Platte, Wayne, Bollinger, Carter, Chariton, Putnam and Sullivan Counties, 210,774 cu. yd. earth and 2,669 cu.yd. rock excav. B. H. Piepmeier, state highway engr.

Tex., Bay City—May 23, by W. C. McNabb, judge Matagorda Co., grading and shell surfacing 4.89 mi. State Highway 60, Federal Aid Project 428, 15 ft. $44,760. Noted Apr. 24.

Tex., Carrizo Springs—June 3, by W. H. Davis, judge Dimmitt Co., grading and surfacing with shell and gravel 12.58 mi. State Highway 85, State Aid Project 483, 16 ft. $76,011. J. G. Lott, co. engr. Noted May 8.

Tex., Marshall—Taking bids permanent paving various streets. $200,000. M. Ransey, city engr.

Colo., Denver—May 22, by Dept. Impvts. and Parks, paving 20 mi. North Denver Surfacing Dist. 7, gravel loam and sand. $118,953.

Utah—May 20, by State Bd. Comrs., Salt Lake City, grading and gravel surfacing 12.04 mi. highway in Millard Co. between Scipio and Holden, Federal Aid Project 67, 24,400 cu.yd. excav., 24,380 cu. yd. gravel, ètc. H. G. Means, ch. engr.

Wash., Everett—May 19, by Comrs. Snohomish Co., grading and graveling 6.9 mi. Woodinville Cut-off. $67,000. R. D. Alverson, Everett, engr.

California — June 2, by State Highway Comn., Sacramento, improving 8 mi. highway, between point ¾ mi. north of Colfax and Gold Run, Placer Co., 336,200 cu.yd. excav., 640,850 sq.yd. overhaul, 1,530 cu. yd. structure excav., 1,260 ft. 18 in. and 3,050 ft. 24 in. corrugated metal pipe; 4.3 mi. from Greenville to Livermore, Alameda Co., 12,000 cu.yd. roadway embankment, 8,000 sta.yd. overhaul, 3,000 yd. mi. overhaul, 2,910 cu.yd. concrete shoulders, etc. R. M. Morton, state highway engr. Noted May 1.

Calif., Salinas—City Council taking bids improving San Luis St., 82,558 sq.ft. grading, 82,558 sq.ft. 5 in. concrete, 3,667 lin.ft. concrete curb, etc. H. Cozzens, city engr. Noted May 1.

Calif., San Jose — June 2, by Supervs. Santa Clara Co. grading and graveling 6,400 lin.ft. Bodfish Mill Rd., 20 ft., 6 in. gravel, 53,600 cu.yd. excav. Former bids rejected. R. Chandler, co. surv. Noted Apr. 24.

Quebec—May 17, by J. L. Boulanger, deputy minister highways, Parliament Bldg., Quebec, 44,282 ft. Main Rd., 4,900 ft. St. Charles Montee Rd., 10,146 ft. St. Jean Montee Rd., 11,655 ft. Cote St. Remi Rd., St. Genevieve Parish, Jacques Cartier Co. A. Gratton, 6 St. James St., Montreal, div. engr.

Quebec — May 23, by J. L. Boulanger, deputy minister Dept. Pub. Highways, Quebec, 12.125 mi. St. Bruno-Robertval-St. Bruno Rd. in villages of St. Bruno and Herbertville, $35,000, graveling 36,600 ft. Levis-Rimouski Rd., in Notre Dame du Portage, $80,000. A. Fraser, Quebec, engr.

Ont., Ottawa — May 27, by Ottawa Suburban Rds. Comn., Carling Ave., 1½ mi. asphalt on Bowesville Rd. $35,000. A. K. Hay, c/o owner, engr.

BIDS RECEIVED

N. Y., Brooklyn—E. Riegelmann, boro pres., Boro Hall, May 7, asphalt paving Lott Ave., from Borough Asphalt Co., 1301 Metropolitan Ave., $3,587, 48th St., from M. J. O'Hara Contg. Co., 717 65th St., $3,420, 64th and 81st Sts., from Cranford Co., 52 9th St., $8,956 and $9,616 respectively; grading, curbing and flagging New York Ave., from F. Persicano, 350 Fulton St., $1.802, Rockaway Parkway, etc., from Harrison & Bernhardt, Central Ave., $11,043, 16th Ave., from Gallo Contg., 745 Dean St., $6,892, 46th St., from C. Bennett Contg. Co., 44 Rutland St., $15,054. Noted May 1.

N. Y., Buffalo—Commissioner Pub. Wks., May 1, paving with **(a)** asphalt **(b)** brick **(1)** West Utica St., 5 ft. wider on each side **(2)** Trenton Ave. **(3)** Castle Pl. **(4)** East Amherst St. **(5)** Hastings St. **(6)** Iowa Ave. **(7)** Kirkpatrick St. **(8)** Melrose St. **(9)** Sheffield Ave. **(10)** Theodore St. **(11)** Woodside Ave., from H. P. Burgard Co., Fillmore Ave., **(a1)** $7,885 **(a4)** $44,121 **(a5)** $35,071 **(a10)** $33,551; Rock Asphalt & Constr. Corp., Morgan Bldg., **(a2)** $12,744 **(a3)** $13,246 **(a6)** $14,856 **(a7)** $9,440 **(a8)** $11,055 **(a9)** $41,852 **(a11)** $18,926; B. F. Spire 24 Colonial Circle, **(b7)** $10.500; Erie Contg. Co., Morgan Bldg., **(b8)** $12,287. Noted Apr. 24.

N. Y., Long Island City—M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., May 5, from Peace Bros. Inc., 57 North Laurence St., Flushing, grading, curbing and laying sidewalks, etc. on Lewis Ave. $8,940, 55th Ave. $5,770, grading sidewalk space, setting curb, etc. on 58th St. $1,577; from Kennedy & Smith, 93 Amity St., Flushing, grading, curbing and laying sidewalks, etc. on Merritt St. $11,914, 89th Ave. $11,916; from J. J. O'Brien, Jr., William St., Jamaica, grading sidewalk space in 101st St. $1,488; from Highway Impvt. & Repair Co., 501 Bloomfield Ave., Montclair, N. J., grading, laying sidewalks and asphalt paving Edgemere Ave. $70,475, Hancock St. $6,875; from J. Condon, 341 Cornelia St., Brooklyn, grading, etc. 4th Ave. from Astoria to Vandeventer Aves. $2,182, grading and curbing 4th Ave. from Vandeventer to Grand Aves. $7,810. Noted May 1.

N. Y., New York—J. Miller, pres. Manhattan Boro, Municipal Bldg., May 9, granite block repaving 10th Ave., from J. Meehan & Son, 74 Cortlandt St., $274,548, West 180th St., from Asphalt Constr. Co., 208 Bway., $26,606; grading, curbing and flagging West 184th St., etc., from J. McCarthy, 551 Exterior St., $4,164. Noted May 8.

New Jersey—State Hy. Dept., Trenton, May 5, concrete paving 5,222 sq.yd. Route 16, Sect. 8, Harlinger cut-off, Somerset Co., (includes small span bridge), from G. Van Keuren, 76 Montgomery St., Jersey City, $45,695. Noted Apr. 24.

Pa., Altoona—City Council, 35,121 sq.yd. pavement on 18 streets, from B. L. McKillip, 521 Pine St., Hollidaysburg, $117,607.

Pa., Phila. — Bureau Highways, Dept. Pub. Wks., City Hall, 10,800 sq.yd. redressed granite block on Frankford St., also furnishing 1,800 tons asphalt surface and 1,400 tons binder, from Union Paving Co., 30th and Lancaster Sts., $49,086 and $18,096 respectively; 17,499 tons crushed stone from Birdsboro Stone Co., Land Title Bldg., $49,436; 5,451 tons crushed slab from J. Meehan & Sons, 916 West Dakota Ave., $14,669.

Maryland—State Rds. Comn., Baltimore, May 6, paving with sheet asphalt 0.85 mi. highway in Frederick Co., Contr. F-78, from Amer. Paving & Contg. Co., Montebello Ave., Baltimore, $59,174; 2 mi. in Baltimore Co., Contr. B-61, from F. B. Carrozza, 412 Keyser Bldg., Baltimore, $61,843. Noted Apr. 24.

Md., Baltimore—Bd. Awards, May 7, grading and paving streets, 22,200 sq.yd. asphalt, Contr. 256-OANA, from Amer. Paving Co., Montebello Ave., $93,829. Noted May 1.

Alabama—State Hy. Dept., Montgomery, grading and gravel surfacing 4.989 mi. Alexander-Jackson Gap Rd., 18 and 26 ft., Federal Aid Project 78-B and C, Tallapoosa Co., from Stanley & Singer Constr. Co., Lafayette, $119,604. Noted Apr. 17.

Tennessee — State Dept. Hys. & Pub. Wks., Nashville, grading 5.23 mi. Lenoir-Knox Co. line Rd., 18 ft., Federal Aid Project 207, Loudon Co., from R. L. Peters Constr. Co., Holston Bank Bldg., Knoxville, $53,766; grading and bridging 5.75 mi. Bells-Madison Co. line Rd., 16 ft., Federal Aid Project 165, Crockett Co., from D. M. Sparkman & Co., Dyersburg, $47,048; concrete surfacing 5 mi. Manchester-Beech Grove Rd., 9 ft., State Aid Project 151-B, Coffee Co., from Citizens Eng. & Contg. Co., Savannah, Ga., $65,872; gravel surfacing 9.8 mi. Newport-North Carolina State line Rd., 16 ft., Federal Aid Project 23, Cocke Co., from Brown Constr. Co., Chattanooga, $33,992; bituminous macadam on limestone 5.35 mi. Cookeville-Overton Co. line Rd., 16 ft., Putman Co., from Foster Creighton Constr. Co., 4th and 1st Natl. Bank Bldg., Nashville, $165,710; one 100 ft., four 30 ft. and two 40 ft. steel spans over Collins River, one 26 ft. span over Mud Creek, Federal Aid Project 202, Warren Co., from Montgomery & Parker Constr. Co., Rockport, Ind., $47,112. J. G. Creveling, highway comr. Noted May 1.

O., Cleveland—Improving with **(a)** asphalt **(b)** brick **(1)** Hough Ave. **(2)** East 33rd St. **(3)** Angelus Ave. **(4)** East 112th St. (1 to 4 inclusive) involes 8,860 lin.ft. stone curb and 4 in. drain tile gutter, 13,370 sq.yd. vitr. brick, 16,670 sq.yd. asphalt, etc. **(5)** Folk Ave. **(6)** Huron Rd. **(7)** East 55th St. from Woodland to Grand Aves. **(8)** East 55th St. from Woodland to Scovill Aves. **(9)** Raymond and Heath Aves. (5 to 9 inclusive) involves 1,130 cu. yd. earth excav., 15,775 sq.yd. asphalt **(10)** Mapleside Ave. **(11)** East 137th St. **(12)** East 55th St. **(13)** East 135th St. (10 to 13 inclusive) involves 5,875 lin.ft. curb, 6,075 lin.ft. drain tile gutter, 19,450 sq. yd. vitr. brick, 13,350 sq.yd. asphalt, etc., from Bentley Bros., Union Bldg., **(a1)** $8,427; Baldwin Bros., 4500 Euclid Ave., **(2)** $7,799 **(b4)** $21,950 **(b5)** $7,800 **(11)** $7,449 **(13)** $43,224; Highway Constr. Co., 903 Lorain Co. Bank Bldg., Elyria, **(a3)** $43,664; Rieley Bros., The Arcade, **(b3)** $52,961; Enterprise Paving & Constr. Co., 8444 Bway., **(a4)** $18,174; Gould & Maybach, 16311 Saranec Rd., **(a5)** $6,477; Cleveland Trinidad Paving Co., The Arcade, **(a6)** $23,717 **(a7)** $28,538 **(a8)** $20,839 **(12)** $54,008; A. M. Pejsa Paving Co., Derbyshire Rd., **(a9)** $4,547; River Constr. Co., Mapleside Ave. **(10)** $2,373. Noted Apr. 24.

Streets and Roads (Continued)

Michigan — State Hy. Dept., Lansing, shaping and gravel surfacing 4.994 mi. State Trunk Line Rd. 25-12, B, Chippewa Co., and 13.284 mi. State Trunk Line Rd. 25-15, B and C, Chippewa Co., both 16 ft., from Hill & Belknap, East Tawas, $32,245 and $88,829 respectively; 1.060 mi. State Trunk Line Rd. 25-2, from M. J. Bacco, Iron Mountain, $6,660.

Michigan — State Hy. Dept., Lansing, from S. J. Groves & Sons Co., 120 Manhattan Bldg., Duluth, Minn., grading and gravel surfacing 5.01 mi. Federal Aid Project 109, Marquette Co., 18,176 cu.yd. excav., 47,177 sq.yd. gravel, $58,271; from Hill & Belknap, East Tawas, 12.912 mi. State Trunk Line Rd. 25-5, Sects. A and B, Alger Co., one course gravel, $86,391, 5.932 mi. State Trunk Line Rd. 25-7, Schoolcraft Co., one course gravel, $93,268, 14.185 mi. State Trunk Line Rd. 25-3, Schoolcraft Co., gravel $91,832, 4.002 mi. State Trunk Line Rd. 25-13, Schoolcraft Co., gravel $61,981. Noted Apr. 17.

Ind., Wabash — Wabash Co., May 6, hardsurfacing 18,078 ft. Lee Carr Rd., 18 ft., from Pike Constr. Co., Wabash, $88,560, engrs. est. $94,005; concrete surfacing 9,502 ft. Albert Betchold Rd., 18 ft., from Brumfield & Son, Wabash, $42,000, engrs. est. $49,412, 16,261 ft. Thomas Betchold Rd., 18 ft., from Kennedy Constr. Co., Wabash, $61,700, engrs. est. $74,557; 19,861 ft. Huffman Rd., 18 ft., from Northern Constr. Co., Wabash, $100,500, engrs. est. $103,379. Noted May 1.

Ind., Warsaw—Kosciusko Co. hardsurfacing 26,941 ft. Turner Rd., 18 ft., from E. A. Gast, Warsaw, $116,500. Noted Apr. 24.

Wisconsin — State Hy. Comn., Madison, grading, etc., Portage-Kilbourn Rd., Sect. B, from S. J. Groves, 303 Globe Bldg., Minneapolis, Minn., 17,999 cu.yd. earth excav. $0.40 114,165 cu.yd. marsh borrow $0.22, 15,345 cu.yd. top dressing $0.85, etc., total $60,628; Kilbourn-Portage Rd., Sect. C, Project 360, Columbia Co., from Monad Constr. Co., Wauwatosa, 37,939 cu.yd. earth excav. $0.35, 2,112 cu.yd. loose rock $1, 3,161 cu.yd. solid rock $1.75, 11,244 cu.yd. crushing gravel $1.10, 7,453 cu.yd. top dressing and 1,043 cu.yd. borrow top dressing, both $2.50, etc., total $49,377. Noted Apr. 24.

Montana—State Highway Comn., Helena, 5.6 mi. crushed stone surfacing, Project 191, section Pablo-Polson Rd., from Pioneer Constr. Co., Bozeman, $41,000; bridge over Pablo Canal, from J. Item, Helena, $6,600. Noted Apr. 24.

Missouri—State Hy. Dept., Jefferson City, May 6, from Springfield Constr. Co., Springfield, grading 3.463 mi. Lamar-Minden Mines Rd., $9,565, 4.006 mi. of above road, $8,866, both 26 ft., Barton Co.; from Thomas & Johnston, Doniphan, grading 2.37 mi. road from Fairdealing east and west, $8,662, 2,756 mi. Doniphan-Fairdealing Rd., $11,594, both 24 ft., Ripley Co.; from Jones & Harlan, West Plains, grading 3.625 mi. Fordland-Seymour Rd., 24 ft., Franklin Co. $9,134, 2.652 mi. Dunn-Cabool Rd., 30 ft., Texas Co. $20,900, 2,509 mi. Cabool-Houston Rd., 30 ft., Texas Co., $16,157; from Haller & Davis, Boonville, grading 1.25 mi. road from Washington east, Franklin Co. $11,011; from L. Rich Constr. Co., East St. Louis, Ill., grading 3.12 mi. St. Louis-Springfield Rd., St. Louis Co., $46,858, concrete paving 3.12 mi. St. Louis-Springfield Rd., 18 ft., St. Louis Co., $43,444; from Tibbetts & Tibbetts, Olathe, Kan., grading 4.297 mi. Kansas City-St. Louis Rd., $27,585, 4.981 mi. Kansas City-St. Louis Rd., $26,329, concrete surfacing 4.297 mi. Kansas City-St. Louis Rd., 18 ft., $133,862, 4.981 mi. Kansas City-St. Louis Rd., 18 ft., $155,170, all Callaway Co.; from E. C. Johnson, Carrollton, asphalt surfacing 1.25 mi. road from Washington east, 18 ft., Franklin Co., $15,576; from Reynolds-Blocker & Crews, Caruthersville, gravel surfacing 1.822 mi. road from Risco, east, 16 ft., New Madrid Co., $38,114; from F. Kersting, Jefferson City, graveling 2.835 mi. road from Rolla south, 12 ft., Phelps Co., $28,262; from Kiefner & Geile, Perryville, graveling 1.8 mi. road from St. Marys south, 16 ft., St. Genevieve Co., $27,738; from C. W. Knox, Jackson, graveling 1.268 mi. road from Gravel Hill west, 12 ft., Cape Girardeau Co., $10,485; from Easley Bros., Aurora, graveling 3.453 mi. road from Stockton east and west, $16,002, 1.074 mi. road from Stockton east, $14,530, both 12 ft., Cedar Co.

Mo., St. Louis — Bd. Pub. Serv., **(e. e. means engrs. est.)** from Trinidad Asphalt Mfg. Co., Title Guaranty Bldg., reconstructing 8,895 sq.yd. Bell Ave., asphalt on concrete, $37,086, e. e. $49,200; from Webb-Kunze Constr. Co., 5927 Fyler Ave., improving Sulphur Ave., 1,725 lin.ft. granite curb, 1,155 cu.yd. earth excav., 3,125 sq.yd. asphalt, $17,663, e. e. $18,500; Central Paving & Constr. Co., 6161 Maple Ave., grading, granite curbing and asphalt paving 2,435 sq.yd. Ohio St. $10,222, e. e. $14,000, 2,650 sq.yd. Beacon Ave., $10,864, e. e. $14,700, removing approximately 21,380 sq.yd. granite block and laying 21,455 sq.yd. asphalt on concrete, etc. on Chouteau and Manchester Sts., $50,961, e. e. $67,500; from Granite Bituminous Paving Co., Ry. Exch. Bldg., grading, granite curbing and warrenite paving San Francisco St. $25,889, e. e. $25,000, 4,885 sq.yd. Margaretta St. $26,384, e. e. $25,900, Arlington St. $15,325, e. e. $15,100, 1,785 sq.yd. Wyoming St. $9,908, e. e. $9,600. Noted Apr. 17.

Tex., Memphis—Hall Co. grading and bridging 5.5 mi. State Highway 18, State Aid Project 473-B, 557 cu.yd. concrete, 43,009 cu.yd. roadway and 8,755 cu.yd. borrow excav., 56,009 lb. reinforcing steel, from Smith Bros. Inc., Amer. Exch. Bank Bldg., Dallas, $37,820. Engrs. est. $41,390. Noted Apr. 17.

Colo., Denver—Grading, surfacing, concrete curbs and gutters in South Side Impvt. Dist. 17, from Monaghan & Cunningham, 1710 Market St., $81,288; in East Side Impvt. Dist. 10, from Western Constr. Corp., 33rd and Blake Sts., $45,785.

Wash., Seattle—Bd. Pub. Wks., May 2, paving East 40th St., et al., from J. B. Covello, 1510 16th St., S., 3,020 sq.yd. 7 in. concrete $1.85 per sq.yd., 19,860 sq.yd. 6 in. concrete $1.65, 7,400 ft. concrete curb $0.35, etc., total $44,758. Engrs. est. $48,830.

California—State Highway Comn., Sacramento, 9.4 mi. grade widening, Orange Co., from Williams & Singletary, Colton, $26,034; 8.3 mi. between Vacaville and Batavia, Solano Co., 0.4 mi. concrete and 7.9 mi. asphaltic concrete, from Force & Currigan, Sherlock Bldg., Portland, Ore., $218,345. Noted Apr. 17.

Calif., Bakersfield—Kern Co. improving Rd. 269, extension of 4th St. in Taft (1) contractor furnishing materials and labor, concrete (2) county furnishing paver, four 3½ ton trucks with driver, operator and self propelled roller (3) county providing all materials and delivering paving material from county plant to point of work (4) contractor furnishing material for asphaltic concrete base with asphalt surface, county to furnish roller (5) same as 4 except that surface be finished with Willite, from F. W. Nighbert, Bakersfield, (1) $36,669 (2) $32,795 (3) $9,000; California Constr. Co., 58 2nd St., San Francisco, (5) $29,600.

Calif., San Fernando—Improving Griswold Ave., etc., from Griffith Co., Railway Bldg., Los Angeles, lighting system $8,500, grading and paving, 4 in. asphaltic concrete, curbs and walks, total $49,900.

CONTRACTS AWARDED

Massachusetts—Dept. Pub. Wks., Div. Highways, Boston, Paving Daniel Webster Highway from Lowell to Chelmsford, granite block and rein.-con., to T. G. Jewitt, Jr., Inc., 37 7th St., New Bedford, $186,244; from Chelmsford to Tyngsboro, bituminous macadam, to J. R. Newell Co., Uxbridge, $184,650. Noted Apr. 17.

N. Y., Brooklyn—Park Bd., Municipal Bldg., New York, repairing sheet asphalt pavements on park roads to Sicilian Asphalt Paving Co., 41 Park Row, New York, $14,075; grading, curbing and paving with sheet asphalt on concrete Fort Hamilton Parkway, to Brooklyn Alcatraz Asphalt Paving Co., 407 Hamilton Ave., $113,278. Noted May 8.

N. Y., New York—Park Bd., Municipal Bldg., asphalt paving roadway of Central Park, to W. J. Fitzgerald, 547 West 45th St., $27,938; paving and repaving with asphalt mastic Harlem River Dr., to L. Di Minna, 2366 Lorrilard Pl., $13,400. Noted May 8.

N. Y., New York—H. Bruckner, pres. Bronx Boro, 3rd and Tremont Aves., to Brusstar Constr. Co., Harlem River and 150th St., grading, curbing, laying sidewalks and paving East 176th St. $10,220, bituminous concrete paving East 169th St. $18,793, Anderson Ave. $41,840; to Interboro Asphalt Co., 2306 Creston Ave., sheet asphalt paving West 195th St. $116,887; to Interstate Contg. Co., 154 Nassau St., grading, curbing and laying sidewalks on Matthews Ave. $36,549, Havemeyer Ave. $11,841, Herschell St. $13,415; to T. DeRoma, 33 Evelyn Pl., grading, curbing and laying sidewalks on Andrews Ave. $35,350; to Estates Contg. Co., 270 East Burnside Ave., grading, curbing and laying sidewalks on Faraday Ave. $21,615; to M. DelBalso, 660 East 221st St., grading, curbing and laying sidewalks on Popham Ave. $6,019; to O'Connell & Strada, 3318 Olinville Ave., grading, etc. on Watson Ave. $14,240. Noted May 1.

N. J., Cape May—Cape May Co. concrete paving ½ mi. Sect. 2, Roosevelt Blvd., to Monihan & Hall, Ocean City, $25,730.

N. J., Newark—T. L. Raymond, dir. Pub. Wks., to J. B. Gilligan-Casey Co., 919 Broad St., paving 18th Ave., reclipped granite block, $26,636; to Standard Bitulithic Co., 50 Church St., New York City, paving Court St., reclipped granite block, $22,749; curbing, flagging and sheet asphalt paving Sunset Ave., $5,706; Price Grove Terrace, $16,510; to City Owned Asphalt Plant, sheet asphalt resurfacing Conklin Ave., $3,050; to Doriety Contg. Co., 186 Ridge St., grading, curbing and flagging 10th St., $5,943, 11th St., $6,892. Noted Apr. 24.

Pennsylvania—State Hy. Dept., Harrisburg, rein.-con. paving: 75,500 sq.yd. road Butler Co., to R. H. Cunningham & Sons, Turtle Creek, $393,701; 50,197 sq.yd. Route 88, Sect. 3, Wayne and Concord Twps., Erie Co., to H. E. Bunce, Olean, N. Y., $247,151; 58,400 sq.yd. Route 189, Valley and Cowanshannock Twps., Armstrong Co., to L. H. Hileman Constr. Co., New Kensington, $324,755; 55,650 sq.yd. Route 47, Sect. 2, St. Clairsville Boro, Bird, King and East St. Clair Twps., to W. C. Guncheon & Co., Masonic Temple, Harrisburg, $298,217; 15,188 sq.yd. Route 52, Conemaugh Twp., Somerset Co., to James & Nicholson Co. Inc., Johnstown, $78,954. Noted Apr. 10.

Maryland—State Rds. Comn., Baltimore, concrete paving 1.95 mi. highway in Kent Co., Contr. K-24, to Old Line Constr. Co., Chestertown, $32,805, 0.52 mi. in Talbot Co., Contr. T-17, to A. Farmer, St. Michaels, $17,200, 0.32 mi., Calvert Co., Contr. C-18, to Taylor & Truman, Annapolis, $11,693, 1.39 mi. in Garrett Co., Contr. G 27-A, to Monongahela Constr. Co., Fairmount, W. Va., $44,695; macadam resurfacing 0.95 mi. in Baltimore Co., Contr. B-50, to W. G. Sucro, Calvert Bldg., Baltimore, $12,835. Noted Apr. 24.

Md., Baltimore—Bd. Awards, redressing granite block and granite block liners during 1924, to J. J. Miller, New Amsterdam Bldg., $18 and $45 per M. Noted Apr. 24.

West Virginia—State Rd. Comn. Charleston, grading 5.64 mi. Reedsville-Monongalia Co. line Rd., 18 ft., Monongalia Co., to Sterling Constr. Co., Akron, $74,950, 3.7 mi. Northwestern Turnpike, 18 ft., Harrison Co., to F. M. Yates & Co., Smithfield, $52,708, 6.36 mi. Rock Camp-Peterson Rd., 18 ft., Project 3304, Monroe Co., to R. W. Brown & Co., Princeton, $70,061, 9.89 mi. Fleming-Dunlow Rd., 18 ft., Projects 3190 and 3202-B, Wayne Co., to C. E. Price, 2750 Division St., Huntington, $169,928; gravel surfacing 8.7 mi. Moorefield-Grant Co. line, 18 ft., Project 3148, Hardy Co., to N. W. Harper, Franklin, $52,429. Noted Mar. 27.

W. Va., Charlston—Kanawha Co., oil asphalt paving 1.3 mi. Campbells Creek Rd., Malden Dist., to J. O. McDermott, Ambrosia, $28,194, grading 6 mi. Dunbar-Sattes Rd., to Fayetteville Constr. Co., Fayetteville, $62,589.

W. Va., West Union — Doddridge Co. macadam paving 1 mi. Robinson Fork Rd., 18 ft., to B. Underwood, West Union, $14,904; grading 2.1 mi. Middle Island Rd., 18 ft., to Groves & Hess, Mole Hill, $24,765; 1.25 mi. Rock Run-Poverty Run Rd., 18 ft., to N. A. Hill & Co., West Union, $20,667. Noted Apr. 3.

W. Va., Williamson — Mingo Co. and State, grading and bituminous surfacing Marrowbone-Kermit Rd., Project 3298, to Sutton Constr. Co., Ashland, Ky., $95,000. Noted May 8.

W. Va., Winfield—Putnam Co., macadam surfacing 1 mi. Nitro-Poco Rd., to Smith & Vander, Nitro, $34,360. Noted Mar. 6.

North Carolina—State Hy. Comn., Raleigh, grading, concrete paving and bridging 1.35 mi. State Project 447, Lee Co., 18 ft., to C. D. Rigsbee, Durham, $40,036.

Georgia—State Hy. Dept., East Point, 7.611 mi. topsoil road, Upson Co., to Scott & Chambers, West Point, $65,915. Noted Apr. 10.

Fla., Jacksonville—Laying 3,210 sq.yd. concrete sidewalks and 37,648 sq.yd. tile sidewalks, to Morgan-Hill Co., Jacksonville, $1.49 sq.yd. Noted Mar. 13.

Fla., Tampa—Hillsborough Co., paving Henderson Blvd. and Bay to Bay Rd., Sunset Subdivision, 2 in. amesite on crushed rock, curbs and gutters, to McDonald Contg. Co., c/o R. B. Murdock, Whaley Bldg., $31,000.

Fla., Tampa—Hillsborough Co., to Cone Bros., Tampa, paving, asphalting block on rock base, Covodonga St., 7,000 sq.yd. asphalt block, 6,000 lin.ft. concrete curb and gutter, $34,750, Morrison St., 17,000 sq.yd. asphalt block, 14,600 lin.ft. concrete curb and gutter, $76,744; Azeele St., 31,000 sq.yd. asphalt block, 26,500 lin.ft. concrete curb and gutter, $146,795; Elm and Green Sts., $25,500.

Ala., Birmingham—Birmingham Electric Co. will pave 1st Ave. (between tracks) by day labor, $300,000. Jefferson Co. plans

Streets and Roads (Continued)

paving between gutters and car tracks. Noted Nov. 1.

Miss., Greenville—Washington Co., 60,000 cu.yd. grading Leland-Helm Rd., to T. E. Tanner and E. W. Bradshaw, Leland, $0.275 per cu.yd.

Tenn., Clarksville—Montgomery Co. will construct 12 mi. Port Royal, Ashland City, Dover and Russelville Rds., by day labor under supervision J. Selsemeyer, co. engr. $25,000.

Ohio—Dept. Highways and Pub. Wks., Columbus, resurfacing 1.74 mi. Sect. "A" Windsor-Geneva Rd., Ashtabula, hillside brick, to Fitzgerald Constr. Co., Ashtabula, $4,744; grading, bridging and paving 0.459 mi. Sect. "F-2" Lima-Delphos Rd., Allen Co., Kentucky rock asphalt, to Spencer Stone Co., Spencerville, $11,976, 4.213 mi. Sect. "B" Youngstown-Conneaut Rd., Ashtabula Co., asphalt macadam, to T. W. Miller Co., Youngstown, $109,469, 1.095 mi. Sect. "G" Cleveland-East Liverpool Rd., 2.292 mi. and 0.939 mi. Sect. "D-2" Youngstown-East Liverpool Rd., Columbiana Co., concrete, to J. D. Paxon Co., Salem, $39,111, $81,659 and $35,391 respectively, 1.138 mi. Sect. "B-1" Wellsville-Salineville Rd., Columbiana Co., concrete, to E. A. Freshwater & Sons, Painesville, $41,600; 1.351 mi. Sect. "B" Petersburg-Unity Rd., Columbiana Co., bituminous macadam, asphalt, to R. Stone Co., 433 Amer. Bank Bldg., Lima, $52,979, 2.457 mi. Sect. "H-2" Jackson-Gallipolis Rd., Gallia Co., asphalt macadam, to W. M. Gray, 408 Fairwood Ave., Columbus, $72,959, 4.899 mi. Sect. "D" Cleveland-Burton Rd., Geauga Co., waterbound macadam, to H. L. Sharp, Kinsman, $125,776, 1.013 mi. Sect. "B" Deshler-Findlay Rd., Hancock Co., concrete, to Frost Constr. Co., Findlay, $29,230, 4.002 mi. Sect. "B" Walhounding-Newark Rd., Licking Co., rein.-con., to J. F. Stambaugh, Ada, $142,677, 1.306 mi. Sect. "U" Youngstown-New Bedford Rd., Mahoning Co., tar macadam, to E. E. Miller, Canfield, $18,066, 1.206 mi. Sect. "A" and "Larue North" Larue-Marseilles Rd., Marion Co., bituminous macadam, asphalt, to P. B. Putnam, Van Wert, $23,030, 2.59 mi. Sect. "F-2" Ravenna-Louisville Rd., rein.-con., Portage Co., to P. J. Grady, Youngstown, $72,788, 2.187 mi. Sect. "J" Painesville-Ravenna Rd., Portage Co., asphalt macadam, to Mahoning Constr. Co., Warren, $54,192. 2.53 mi. Sect. "G", 2.277 mi. Sect. "I" and 0.3743 mi. Sect. "Gilboa" Ottawa-Findlay Rd., Putnam Co., asphaltic macadam, to Ottawa Stone Co., Ottawa, $62,010, $57,279 and $11,118 respectively, 2.442 mi. Sect. "A" Fremont-Tiffin Rd., Sandusky Co., to Peerless Constr. Co., Fremont, $61,817, 1.659 mi. Sects. "R-1" and "R-2" Upper Sandusky-Bellevue Rd., Seneca Co., asphaltic macadam, to Lee Bros. & Petticord, Clyde, $35,136, 3.295 mi. Sect. "C" Fremont-Tiffin Rd., Seneca Co., asphaltic macadam, to Seneca Constr. Co., Kansas, $65,050; rein.-con. widening 5.372 mi. Sects. "R and W" Cleveland-Kent Rd., Portage Co., to A. E. Guilford Co., 320 Metropolitan Bldg., Akron, $43,803; 2 bridges on Sect. "D" Lima-Spencerville Rd., Allen Co., to P. B. Putnam, Van Wert, $6,462, concrete bridges on Sect. "G" and Sect. "F" Springfield-Washington C. H. Rd., Clark Co., to F. E. Davis, Springfield, $2,861 and $5,739 respectively. Noted May 1.

O., Akron—S. Porter, clk. Summit Co., graveling 1 mi. Botzum-Wyoga Rd., 20 ft., and 1 mi. Bath-Stow Rd., to T. L. Smith, Akron, $25,180 and $26,766 respectively, engrs. ests. $27,875 and $28,660 respectively; paving 4.1 mi. Cleveland-East Liverpool Rd., 20 ft., concrete, also Barberton Springfield Rd., asphalt, and Robinson Ave., asphalt, to T. E. McShaffrey Constr. Co., 171 South Forge St., $125,344, $60,244 and $45,217 respectively, engrs. ests. $150,269, $66,651 and $51,049 respectively. Noted Mar. 27.

O., Canton—Stark Co., (e. e. means engineers estimate), concrete curbing and paving 4.55 mi. South Canton-Massillon Rd., 20 ft., brick on concrete, to L. D. Burd Constr. Co., 1043 Spring Ave. N. E., $201,342, e. e. $225,000; 1.01 mi. Canal Fulton St., 20 ft., brick on concrete, to Elmer Vogt Paving Co., Massillon, $76,341, e. e. $80,000; Dueber Ave. extension, monolithic, to General Asphalt Paving Co., 1268 Dueber Ave., S. W., $154,187, e. e. $175,000; 2.69 mi. Shepler Church Rd., 20 ft., monolithic type, to Wise Bros. Co., Canton, $108,342, e. e. $120,000. Noted May 1.

O., Lisbon—Columbiana Co. brick resurfacing 1.047 mi. East Liverpool-Wellsville Rd., 20 ft., Liverpool Twp., to Tagenhorst & McLaughlin, East Liverpool, $79,235, engrs. est. $85,000; grading 0.55 mi. Wellsville-Salineville Rd., 20 ft., Washington Twp., to Kane Bros., Youngstown, $25,151, engrs. est. $27,000.

Ind., Greencastle—Comrs. Putnam Co., hardsurfacing 15,337 ft. C. H. Crosby Rd., 24 ft., to Pigg & Snyder, Terre Haute, $53,053. Engrs. est. $54,956. Noted May 1.

Ind., South Bend—St. Joseph Co., concrete paving 18,530 ft. Rerick Rd., 18 ft., to W. J. Nees Co., Frankfort, $84,400; 18,429 ft. Keltner Rd., 18 ft., to Seaman Constr. Co., Goshen, $87,850; Crofoot Rd., to J. C. Bontraegen, Elkhart, $103,169. Noted Apr. 17.

Michigan—State Hy. Dept., at office Comrs. Clare Co., Harrison, grading and surfacing 1.249 mi. State Trunk Line Rd. 14-37, to Hudson & Coons, Bennington, $41,024; cement furnished by State $13,800. Noted May 1.

Michigan—State Hy. Dept. at office Leelanau Co., Leland, grading and gravel surfacing 2.992 mi. State Trunk Line Rd. 22-16, D, and 3.106 mi. State Trunk Line Rd. 22-13, to Leelanau Co. Rd. Comn., Leland, $25,144 and $26,421 respectively. Noted May 8.

Michigan—State Hy. Dept., Lansing, grading and gravel surfacing 51,805 sq.yd. State Trunk Line Rd. 18-13, Midland Co., to R. H. Maxwell and G. Owens Hope, $30,541. Noted May 8.

Michigan—State Hy. Dept. at office Comrs. Ingham Co., Mason, grading and surfacing 0.723 mi. State Trunk Line Rd. 14-15, Sect. A, to Hudson & Coons, Bennington, $29,756 incl. Cement furnished by State $7,246. Noted May 8.

Michigan—R. B. Roberts Shirmer Bldg., Saginaw, engr. Saginaw Co. Rd. Comn., to A. Jeffrey, Saginaw, 4 mi. gravel on Road 36, $40,606, 3 mi. stone on Road 69, $34,344, and 4 mi. tarvia on stone on Road 55, $72,326. Noted Apr. 17.

Michigan—State Hy. Dept. at office Comrs. Monroe Co., Monroe, rejected bids Apr. 24, shaping and surfacing 4.197 mi. Federal Aid Project 50, B 2, and B 4, Monroe Co., 49,185 sq.yd. concrete. Work will be done with prison labor. Noted Apr. 17.

Mich., Detroit—Grading and paving with 3½ in. sheet asphalt on 8 in. concrete, to Detroit Asphalt Paving Co., 909 Free Press Bldg., Bulwer Ave. $15,824, Calvert Ave. $9,966, Milner Ave. $16,210, Sylvester Ave. $4,901, Torrey St. $10,141, Weitzel Court $9,362, Louis Ave. $9,084, Springwells Ave. $6,335, Walton Ave. $21,183, Hendrie Ave. $10,504; to Cooke Asphalt Paving Co., 1260 Penobscot Bldg., McPherson Ave. $25,344, Dequindre St. $46,530; to M. R. Hanna Co., 1636 Dime Bank Bldg., Byron Ave. $14,547, Grand Ave. $118,252, 14th Ave. $5,584, Griggs Ave. $14,961, Log Cabin Ave. $53,926, Princeton Ave. $38,995, Wilson Ave. $7,006. Paving alleys with one course 6 in. concrete, to C. L. Lincoln, 8074 East Canfield Ave., Alley 1940 $6,044, 1942 $4,998, 1946 $4,046, 1947 $3,861, 1948 $3,524; to R. J. Powelson Co., 6415 Iriquois Ave. 1941 $5,514, 1951 $2,901; to T. E. Currie, 909 Free Press Bldg., 1943 $4,819, 1944 $4,710, 1945 $4,018, 1948 $3,718, 1956 $4,820; to Bishop & Weir, 1305 Lafayette Bldg., 1950 $3,529, 1952 $2,819, 1955 $1,441, 1959 $913; to F. Porath, 305 Free Press Bldg., 1953 $2,321; to Otis Cement Constr. Co., 806 Hammond Bldg., 1954 $1,989, 1958 $3,148; to Building Maintenance Corp., 1620 West Lafayette Ave., 1957 $3,457.

Mich., Detroit—Paving alleys with one course concrete, to Otis Cement Constr. Co., 806 Hammond Bldg., 1,700 sq.yd. Alley 1920 $5,035; to R. J. Powelson Co., 6415 Iroquois Ave., 1,200 sq.yd. Alley 1921 $3,236, 1,400 sq.yd. Alley 1929 $3,744, 1,100 sq.yd. Alley 1933 $3,068; to J. Porath, 745 Griswold St., 1,400 sq.yd. Alley 1922 $3,555, 330 sq.yd. Alley 1937 $1,001; to C. L. Lincoln, 8074 East Canfield St., 410 sq.yd. Alley 1923 $1,256, 190 sq.yd. Alley 1930 $690, 1,200 sq.yd. Alley 1935 $3,329, 1,400 sq.yd. Alley 1936 $3,814; to T. E. Currie, 909 Free Press Bldg., 1,900 sq.yd. Alley 1925 $5,250; to Bishop & Weir, 1304 Lafayette Bldg., 1,900 sq.yd. Alley 1926 $5,143, 1,400 sq.yd. Alley 1927 $3,714, 1,200 sq.yd. Alley 1932 $3,140, and 700 sq.yd. Alley 1939 $1,970.

Mich., Detroit—Grading and paving with 3½ in. sheet asphalt on 8 in. concrete, 17,150 sq.yd. American Ave. and 18,680 sq.yd. Labelle Ave., to Detroit Asphalt Paving Co., 909 Free Press Bldg., $85,781 and $93,289 respectively.

Illinois—Dept. Pub. Wks. and Buildings, Div. Highways, Springfield, paving **(25-23 Douglas-Champaign means Route 25, Sect. 23, Douglas and Champaign Counties)**, to Harrison Eng. & Constr. Corp., Kansas City, Mo., 25-23 Douglas-Champaign, 25-24 Champaign nd 25-25 Champaign, $276,432; to Henkel Constr. Co., Mason City, Ia., 3-82 Morgan and 3-83 Scott, $274,400, and 2-71 and 2-72 LaSalle, $259,500; to Devine Constr. Co., Watseka, 8-18 and 8-19 Iroquois, $133,650; to Stresenreuter Bros., 3020 South Halsted St., Chicago, 25-14-1 Cumberland, **$2,729**; to Stevens Bros., St. Paul, Minn., 40-4 Carroll, $173,632; to Powers-Thompson Constr. Co., Joliet, 2-68, Marshall-LaSalle, $158,089, and 2-69 LaSalle, $102,366; to Hartman-Clark Bros. Co., Dwight, 4-7B, Livingston, $10,135 and 17-16A, Livingston $10,435. Grading to Phelan-Shirley Co., 306 South 24th St., Omaha, Neb., 27-4A Carroll, $42,428; to T. Ryan & Sons, Missouri Valley, Ia., 3-28A Warren-Mercer, $70,655, and 3-33A Warren, $7,282; to McAndrew & Hannahs, Keokuk, Ia. 36-11A, 36-12A and 36-13A, Adams, $158,500; to Cameron, Joyce & Co., Keokuk, Ia., 9-39A Fulton, $152,127. Noted Apr. 10 and 24.

Wis., Two Rivers—Vibrolithic concrete paving various streets, to E. J. Streu, Two Rivers, $38,613. Noted May 1.

Wis., Milwaukee—Concrete paving, etc. various alleys, to F. Bodgett, Inc., 521 Newton Ave., under specifications 1, 4 and 5 $13,180; to Parkinson Constr. Co., 322 27th St., under specifications 2, 7 and 8. $6,640, to Kroeing Constr. Co., 39th Ave. and Mitchell St., under specifications 3 and 6 $22,954. Noted May 8.

Wis., Milwaukee—Paving, etc. 29th Ave. from Pabst to Lincoln Sts., to R. Gumz, 831 13th Ave. $24,584; North Ave. from Lisbon Ave. to 53rd St., asphaltic concrete, also 3rd St. from Chestnut to Cedar Sts., asphalt resurface, to Badger Constr. Co., 97 Wisconsin St., $16,092 and $23,507 respectively. Noted May 8.

Ia., Boone—Paving various streets and alleys, 65,000 sq.yd. vibrolithic concrete, to Bryant Asphalt Paving Co., 807 Black Hawk Bank Bldg., Waterloo, $2.44 per sq.yd.

Ia., Estherville—Emmet Co., grading various roads, to O'Hanlon & Reilly, Omaha, Neb., 88,040 cu.yd. at $0.265, 34,578 cu.yd. $0.27, 30,705 cu.yd. $0.28.

Ia., Storm Lake—Paving, etc., with 6-in. rein.-con., 20,300 sq.yd. various streets, to Booth & Olson, 120 Virginia St., Sioux City, $55,242.

Minn., Hastings—R. W. Downs, aud. Dakota Co., Job 2401, State Rd. 1, 64,836 cu.yd. excav., to C. O. Engstrom, Hastings, $18,604, gravel surfacing to Marshall Concrete Tile Co., Marshall, $9,164, corrugated metal culverts to Lyle Culvert & Road Mchy. Co., 171 27th Ave. S. E., Minneapolis, $1,896, sectional concrete culverts to Elk River Products Co., Elk River, $951, monolithic culverts to F. J. Nelson, Hastings, $4,640; Job 2407, State Rd. 7, 37,793 cu.yd. excav., to D. W. Moore, 894 Edmund St., St. Paul, $10,719, monolithic culverts to R. H. Wessel, 721 Guardian Life Bldg., St. Paul, $2,052, sectional concrete culverts to Elk River Products Co., Elk River, $794. Noted Apr. 10.

Minn., St. Paul—Ramsey Co., paving, etc., Project 24-51, White Bear Rd., Whitaker St., Bald Eagle Blvd. and Park Ave., 37,000 sq.yd. asphaltic concrete, 12,000 cu.yd. earth excav., 3,350 lin.ft. concrete gutter, to W. A. Patterson, 901 Globe Bldg., $124,695; Prescott Connection between St. Croix Bridge and State Highway 3, 79,507 cu.yd. earth, 5,029 cu.yd. loose rock and 23,036 cu.yd. solid rock excav., 333,070 cu.yd. overhaul, to C. F. Sculley Equipment Co., 212 Dakota Bldg., $64,565. Noted Apr. 10 and 17.

Minn., White Bear—State Hy. Dept., St. Paul, State Project 1-36 here, between Automobile Club and Stewart Ave., 15,100 sq.yd. paving, 11,000 cu.yd. excav., 7,800 lin.ft. concrete curb and gutter, to W. A. Patterson, 901 Globe Bldg., St. Paul, $55,954 for oil asphalt. Noted Apr. 17.

Kan., Kansas City—Wyandotte Co., concrete paving 0.873 mi. Fort to Fort Rd., Federal Aid Project 102, to Rand Constr. Co., 619 Eks Bldg., $28,179. Noted Apr. 1.

Nebraska—State Hy. Dept., Lincoln, following highway work: **(P. means Project)**, to Lamoureaux Bros., 416 Arthur Bldg., Omaha, 9.78 mi. P. 2C, Otoe Co., 121,000 sq.yd. gravel, $32,670, 8.14 mi. P. 133 A, Otoe Co., 96,600 sq.yd. gravel, $34,776; to Yant Constr. Co., Omaha, 9.78 mi. P. 18, Lancaster Co., 207,000 sq.yd. gravel, $51,336; to Central Contractors, Central City, P. 19, Lancaster Co., $14,638, 2.2 mi. P. 25, Gage Co., $8,553, 4 mi. P. 122 A, Gage Co., 49,300 sq.yd. gravel, $14,149, 9.74 mi. P. 134 A, Seward Co., 120,450 sq.yd. gravel, $31,317; to Central Bridge & Constr. Co., Wahoo, 11.78 mi. P 27, Saunders Co., 68,750 sq.yd. 4 in. gravel, $13,750, and 73,600 sq.yd. 3 in. gravel, $20,608, 1.99 mi. P. 107 B, Saunders Co., 23,500 sq.yd. gravel, $6,510, grading and graveling 0.85 mi. P. 107 D, Saunders Co., grading, $850, gravel, $2,881; to Union Constr. Co., Kearney, 14.51 mi. P. 39, Lawson Co., 189,000 sq.yd. gravel, $33,453; to S. M. Aldridge Bros., Nebraska City, grading 3.59 mi. P. O. 50 D, Nance Co., 91,200 cu.yd. excav. $20,978, 4.38 mi. P. 116 B, Nemaha Co., 38,200 cu.yd. excav., $9,102, grading and graveling 5.66 mi. P. 216 A, Merrick Co., grading, $7,402, gravel to Yant Constr. Co., Omaha, $15,798; to H. A. Moseman,

Streets and Roads (Continued)

Omaha, grading 9.85 mi. P. 57, Dixon Co., 127,000 cu.yd. excav. $26,543; to Western Bridge & Constr. Co., 748 Peters Trust Bldg., Omaha, bridge on P. 71 B, Harlan Co., $5,634, and one on P. 143 D, York Co., $1,213, one on P. 219, Harlan Co. $9,943, one on P. 220, Harlan Co., $6,667; to A. C. Ross, Bayard, grading 6.07 mi. P. 71 B, Box Butte Co., 16,500 cu.yd. excav., $4,547; to G. W. Condon, 510 Farnam Bldg., Omaha, grading 3.11 mi. P. 84 C, Greely Co., $19,888, 7.72 mi. P. 136 B, Pierce Co., $17,531; to D. Quinton, Kearney, overflow pavement on P. 85 A, Valley Co., 1,400 sq.yd., $4,093; to Huston & Son, Kearney, grading 0.75 mi. P. 92 B. Sherman Co., 22,900 cu.yd. excav. $5,267, 3.68 mi. P. 212 Sherman Co., $18,581, 14.01 mi. P. 223, Sheridan Co., 100,500 cu.yd. excav., $38,983; to C. T. Whalen, North Platte, grading 282 mi. P. 111 B, McPherson Co., 25,500 cu.yd. excav., $15,733; to P. Shirley, Omaha, grading 3.93 mi. P. 113 B, Knox Co., $21,177; to Saunders & Lawrence, Oshkosh, graveling 2.08 mi. P. 117 B, Garden Co., 18,000 sq.yd. gravel $5,622, 3.7 mi. P. 117 B, Garden Co., 26,753 sq.yd. gravel $14,544; to A. A. Dobson, Lincoln, graveling 7.344 mi. P. 139 B, Madison Co., 89,350 sq.yd. gravel $13,403, grading and graveling 1.63 mi. P. 156 C, Hamilton Co., $10,567; to American Paving Co., 1325 Grace St., Omaha, paving 4.93 mi. P. 187 Douglas Co., $123,000, and 4.82 mi. P. 96 B, Douglas Co., $122,500; to E. Seabury, Omaha, grading 10.49 mi. P. 209 A, Butler Co., $27,930; to J. J. Hysham, Omaha, grading 6 mi. P. 204 B. Saunders Co., $25,204; to Koehler Lumber Co., Sterling, grading and bridges on 2.01 mi. P. 218 A, Johnson Co., grading $5,663, bridges $12,367; to A. Keithley, Kearney, grading 1.59 mi. P. 224 B, Keith Co., 17,400 cu.yd. excav., $4,639; grading and graveling 4.36 mi. P. 225, Lancaster Co., grading to J. W. McGeer, Lincoln, $7,539, gravel to Yant Constr. Co., Omaha, $12,312; graveling 2.348 mi. P. 5, Madison Co., 105,225 sq.yd. gravel, to Madison County (Madison), $17,362; grading 5.34 mi. P. 60 B, Howard Co., 70,000 yd. excav., to Howard County (St. Paul), $16,795, 2 in. gravel to Yant Constr. Co., Omaha, $10,688; grading 2.87 mi. P. 96 A, Custer Co., 33,000 cu.yd. excav. and 6.615 mi. P. 127 A, Custer Co., 95,300 cu.yd. excav., to Custer County (Broken Bow), $10,048 and $24,118 respectively; grading 8.18 mi. P. 193 A, Valley Co., 122,000 cu.yd. excav., to Valley County (Ord), $27,795. Noted Apr. 10.

N. D., Mott — Hettinger Co., grading, culverts, etc., on 4.039 mi. Federal Aid Project 220, 29,524 cu.yd. excav., 1,534 lin.ft. 12-36 in. rein.-con. pipe culverts, etc., to Stanley Bros. & Moyer, Bismarck, $12,594 for grading, and $18,229 for concrete work.

Wyoming—State Highway Comn., Cheyenne, grading and surfacing 24 ft., 14 mi. Federal Aid Project 5, Wyoming Rock Springs-Pinedale Rd., Sweetwater Co., to Maney Bros. Co., Oklahoma City, Okla., $49,086; 10.9 mi. Federal Aid Project 66-A Gillette-Arvada Rd., Campbell Co., to Watt Bros. Constr. Co., Buffalo, $74,478; 2 mi. Federal Aid Project 161-A, Basin-Manderson Rd., Big Horn Co., incl. four 15 ft. span pile bridge, to J. S. Tebbs, Cowley, $30,963; 10.5 mi. Federal Aid Project 142-B, Lincoln Highway, Wheatland-Casper Rd., Platte and Converse Counties, incl. 5 pile trestles, 454 ft. long, to Bagley Bros., Wheatland, $74,187; 11.3 mi. Federal Aid Project 49, Lincoln Highway, Thayer Junction, Ted Desert, Sweetwater Co., to F. A. Bundy, Cheyenne, $41,516. Noted Apr. 24.

Wyo., Casper—To U. S. Miller, Casper, 4 in. concrete walk, one course with 4 in. gravel cushion $0.188 sq.ft., same without cushion $0.165, 6 in. walk with cushion $0.24, without cushion $0.215, excav. and fill $0.65 cu.yd., overhaul beyond 60 ft. free haul $0.025 sta.yd., total $67,835.

Mo., Clayton—St. Louis Co., grading and surfacing approximately 4 mi. Missouri Bottom, Aubuchon and Mehl Ave. Rds., 18 ft., telford macadam, to C. J. Hanick, 4007 West Pine Blvd., St. Louis, $28,433. Noted May 1.

Ark., Little Rock—Pulaski Co. grading and concrete surfacing 7 mi. Confederate Blvd., 18 ft., to Kellher Constr. Co., Southern Trust Bldg.

Tex., Bay City—Matagorda Co., grading and shell surfacing 8.25 mi. State Highway 60, Federal Aid Project 416, 15 ft., to P. G. Burns, San Bernardo, $31,692; rein.-con. drainage structures, to L. C. Watson, Matagorda, $4,746. Engrs. est. $72,404. Noted May 1.

Tex., Sanderson—Terrell Co., grading, gravel surfacing and bridging 12.48 mi. State Highway 12, Federal Aid Project 324-B, 18 ft., to F. P. Holt, Sanderson, $185,978; 29,681 cu.yd. gravel furnished by county. Engrs. est. $209,436. Noted May 8.

Tex., Tyler — Paving various streets, vertical fibre brick on 4 in. concrete, to H. W. Greenway, 214 Hemphill St., Ft. Worth, $3.15 per sq.yd. Engrs. est. $25,000.

Colorado — State Hy. Dept., Denver, gravel surfacing 12.046 mi. Federal Aid Project 248-A, Chaffee Co., to Western Constr. Corp., 33rd and Blake Sts., Denver, $93,534; concrete paving 0.787 mi. Federal Aid Project 246-B, Pueblo Co., to W. A. Colt & Son, Las Animas, $29,454, 2.944 mi. Federal Aid Project 255-B, Morgan Co., to W. F. Pigg & Son, 534 Commonwealth Bldg., Denver, $92,486; grading 1.0575 mi. Federal Aid Project 254-A, Grand Co., to Pioneer Constr. & Eng. Corp., Denham Bldg., Denver, $72,409. Noted May 1 and Apr. 17.

Arizona—State Hy. Dept., Phoenix, to Pacific Constr. Co., Home Builders Bldg., Phoenix, Federal Aid Project 71, Phoenix-Yuma Highway, 4,266 cu.yd. excav. roadway $1.15, 33,500 cu.yd. excav. borrow $0.30, 928 cu.yd. excav. structures $1.50, 97,898 sq.yd. concrete $1.25, 544 cu.yd. concrete $16, etc., total $282,719.

Wash., Everett—Concrete paving Oakes Ave. from Hewitt to 35th Sts., to J. W. Hoover & Co., Everett, $31,940. Noted April 24.

Wash., Ritzville — Adams Co., grading and surfacing with crushed rock 9.5 mi. Ralston-Berge Rd., to W. J. Doust, 1034 Indiana St., Spokane $59,129, 9 mi. Donahue Rd. 10, to Mitchell Bros., East 127 Mission St., Spokane, $56,662.

Oregon—State Hy. Dept., Salem, grading and graveling 2.73 mi. Seaside Cannon Beach Sect. Roosevelt Highway, to Peterson & Scott, Portland, $66,246; broken Stone resurfacing 13 mi. Allen Ranch Sect. The Dalles-California Highway, 18 ft., to Porter & Conley, Inc., Ry. Exch. Bldg., Portland, $55,240.

Calif., Daly City (Branch San Francisco) — Improving Templeton St., etc., 640,000 ft. 4 in. concrete with 1½ in. asphaltic concrete surface, 40,000 cu.yd. grading, 290,000 sq.ft. cement walks, etc., to Pacific States Constr. Co., Call Bldg., San Francisco, $282,580. Noted May 1.

Calif., Los Angeles — To Griffith Co., Railway Bldg., improving 87th St. between Figueroa and Hoover Sts., grading $3,000, 54,486 sq.ft. asphalt $0.23, 11,374 sq.ft. oil and roll $0.07, sewer $9,000, total $32,790; to G. R. Curtis, 2440 East 26th St., improving Ave. 32 between Carlyle St. and Verdugo Rd., grading $11,000, 26,496 sq. ft. Warrenite-bitulithic $0.265, sewer $4,350, etc., total $26,350, 8th Ave. between Washington and Adams Sts., grading $7,000, 3,442 sq.ft. bituminous $0.12, 99,738 sq.ft. Warrenite-bitulithic $0.2925, etc., total $39,410.

Calif., Santa Monica—Improving Wilshire Blvd., 1,256,682 ft. grading, 979,889 ft. asphaltic concrete with Warrenite surface, etc., to Keen Paving Co., Dudley Bldg., Sacramento, $413,075.

Ontario—Dept. Pub. Highways, 110 University Ave., Toronto, **(C. means Contract)** macadam on 3 mi. C. 1028, 5.4 mi. C. 1062 and 5.4 mi. C. 1092 to Bate, McMahon Co., Central Chambers, Ottawa, $175,000, 5.5 mi. on C. 1024, to A. Bissonette, Alfred, $65,000, 1.9 mi. on C. 1090 to R. S. Fisher, 559 Sherbourn St., Toronto, $35,000, 5.2 mi. C. 1089, to E. Ervine, Alexandria, $65,000, 4.9 mi. C. 1025, to McDonnell & Dibblee, 416 St. James St., Montreal, Que., $65,000, 2.2 mi. C. 1026 to McLean & Stidwell, Cornwall, $30,000, 1 mi. C. 1060 to T. J. McLean, Wingham, $15,000, 4 mi. C. 1093 to Orr & Clark, 121 Carlaw Ave., Toronto, $60,000; macadam surface treatment 9.5 mi. C. 1034, 5.3 mi. C. 1035, 1.8 mi. C. 1057, 4.2 mi. C. 1058, 4.2 mi. C. 1059, 3.7 mi. C. 1098, to V. E. Belanger, Hawkesbury, $190,000, 11.8 mi. C. 1036, 4.9 mi. C. 1037. 7.8 mi. C. 1045. 3.1 mi. C. 1064, 12.4 mi. C. 1073, to Bituminous Spraying & Contg. Co., Confederation Life Bldg., Toronto, $80,000, 11.7 mi. C. 1032, 10.5 mi. C. 1033 7.2 mi. C. 1038, 5.7 mi. C. 1039, 6.9 mi. C. 1040, 9 mi. C. 1041, 2 mi. C. 1046, 7.2 mi. C. 1068, 6.3 mi. C. 1071, 2.4 mi. C. 1074, 17.8 mi. C. 1096 and 5.4 mi. C. 1100, to Dufferin Constr. Co., 210 Victoria St., Toronto, $175,000, 13.2 mi. C. 1067 to J. B. Dunkley, 111 Northcliffe Blvd., Toronto, $25,000, 2.4 mi. C. 1070 to T. Sweeney, Arnprior, $4,000, 12.6 mi. C. 1042, 10.2 mi. C. 1043 and 6.7 mi. C. 1072, and grading C. 1106 to R. Honsberger, Vineland $60,000; washed gravel concrete pavement on 1.8 mi. C. 1051 and 4 mi. C. 1087 to Cadwell Sand & Gravel Co., Windsor, $150,000, 5.2 mi. C. 1084 to Chick Contg. Co., Windsor, $140,000; grading 5 mi. C. 1047, 1.5 mi. C. 1048 and 1 mi. C. 1049 to G. Campbell, R.R. Essex, $45,000, 3 mi. C. 1077, 5.4 mi. C. 1078 and 4.9 mi. C. 1079, also macadam on 1.4 mi. C. 1056, to Curran & Briggs, Orillia, $45,000, grading 2.5 mi. C. 1076 to P. E. Fitzpatrick, Box 53, Kingston $20,000; bituminous macadam on 1 mi. C. 1088, macadam surface treatment on 3.4 mi. C. 1097 and grading 3.3 mi. C. 1102, to Grant Bros., Natl. Bank Bldg., Ottawa, $45,000; widening concrete arch bridge C. 1110, to W. P. Holdcraft, Box 62, Kingston, $15,000; bituminous macadam on 4.1 mi. C. 1054, and macadam on 4 mi. C. 1094, to A. E. Jupp Constr. Co., 170 Berkeley St., Toronto, $90,000; macadam surface treatment on 8.1 mi. C. 1044, 11.5 mi. C. 1099, bittuminous macadam on 2.8 mi. C. 1055, grading 3 mi. C. 1080, and macadam on 0.7 mi. C. 1091 to Law Constr. Co., 107 Hillsdale Ave., Toronto, $85,000; grading 2 mi. C. 1101 to J. J. McNabb, Brussels, $10,000; concrete culverts on C. 1116 and grading approaches to Beckitts Creek Bridge to A. A. Outram, Port Hope, $12,000 and $15,000 respectively; concrete bridge on C. 1081 to A. M. Pratt, Laurel, $12,000, crushed stone concrete pavement 0.44 mi. C. 1082 to Sumerville Co., 22 Cross St., Welland, $18,000; asphalt pavement on 2.3 mi. C. 1019, to Standard Paving Co., Central Chambers, Ottawa, $80,000; concrete bridge on C. 1113 to W. E. Tidy, 12 Linsmore Crescent, Toronto, $12,000; macadam on 3 mi. C. 1095 and concrete bridges on C. 1111, to J. A. Vance, Woodstock, $60,000.

Calif., San Anselmo — Improving Tunstead Ave., etc., 302,292 ft. surfacing grading, 1,618 cu.yd. excav., 385,625 ft. asphaltic concrete surface, 4,162 tons asphaltic concrete base, gutters, curbs, etc., to Pacific States Constr. Co., Call Bldg., San Francisco, $132,250. Noted May 1.

Calif., Stockton — Improving Harding Way, Walnut St., etc., grading, curbs, gutters, paving, etc., to C. Moreing, Commercial Savings & Bank Bldg., $59,500.

Ont., Kitchener—Asphalt pavements on Glasgow, College, Victoria and King Sts., to Standard Paving Co., Central Chambers, Ottawa, $55,000.

Ont., Seaforth—J. A. Wilson, clk., 9,830 sq.yd. asphalt pavement on Main St., to Godson Contg. Co., Manning Chambers, Toronto. Noted Mar. 27.

Industrial Works

PROPOSED WORK

Mass., Boston—Cold Storage—Libby & Libby Co., 24 North St., plans extensive additions to plant. Private plans.

Mass., Boston—Factory, etc.—Standard Sanitary Mfg. Co., Bessemer Bldg., Pittsburgh, Pa., having plans prepared by French & Hubbard, engrs., 210 South St., Boston, 6 story and basement, 80 x 200 ft. factory and warehouse, C St., here. $150,000.

N. Y., Schenectady—Laboratory, etc.—General Electric Co., River Rd., had plans prepared radio experiment station, incl. laboratory, transformer station, towers, etc. $150,000. Private plans.

Fla., Lakeland—Abattoir—City election June 10, $40,000 bonds, abattoir. C. C. Brown, Lakeland, engr.

Ala., Bessemer—Mill—Hercules Powder Co., Amer. Trust Bldg., Birmingham, plans mill, 4 mi. from here. $300,000. Engineer and architect not selected.

O., Cleveland—Factory—Adam Hoffman Co., 10522 Cedar Ave., plans 2 story and basement, 50 x 60 ft., brick. $40,000. E. M. Hoffman, vice pres. Engineer and architect not selected.

O., Columbus—Plant—Lockwood, Greene & Co., archts. and engrs., Hanna Bldg., Cleveland, soon take bids 3 story, 100 x 240 ft. concrete plant, 1 story, 50 x 300 ft. forge shop, 50 x 167 ft., storage shed and 1 story, 50 x 167 ft. hot bolt shop, brick and concrete, etc., here, for Columbus Bolt Wks., Water and Chestnut Sts. $350,000.

O., Dayton—Plant—Christian Publishing Assn., 5th and Ludlow Sts., plans 5 story and basement, 55 x 90 ft., rein.-con. and brick, plain foundation, Court and Ludlow Sts. $175,000. Engineer and architect not selected.

O., Dayton—Factory—Comer Mfg. Co., Apple St., plans 5 story and basement, 100 x 250 ft., rein.-con., plain foundation, South Ludlow St. $175,000. Private plans.

O., Hamilton — Shop — Ford Motor Co., Highland Park, Mich., had plans prepared by A. Kahn, 1000 Marquette Bldg., Detroit, Mich., 1 story, 102 x 201 ft., brick, steel and concrete addition, plain foundation, 4th St., here.

O., Springfield—Plant—Crowell Publishing Co., 202 South High St., plans 7 story and basement, rein.-con. and brick, plain foundation. $200,000. Frank Hill Smith, Inc., Winters Bldg., Dayton, archts.

O., Zanesville — Factory — See "Contracts Awarded."

Ind., Anderson — Plant — Hughes-Curry Packing Co., 353 Transportation Bldg.,

Industrial Works (Continued)

having plans prepared by Henschein & MacLauren, engrs., 1637 Prairie Ave., Chicago, 2 story, 70 x 145 ft., brick and concrete, West 8th St. $100,000.

Ind., Bloomington—Printing Plant—W. S. Bradfute having plans prepared by J. L. Nichols, Bloomington, 2 story and basement, 40 x 66 ft., brick and steel. $40.000.

Ind., Dunkirk—Plant—Indiana Glass Co. having plans prepared by Austin Co., engrs., 16112 Euclid Ave., Cleveland O., 1 story, 86 x 110 ft., brick and steel. $40,000. Noted Dec. 6.

Ind., Ft. Wayne—Plant—News-Sentinel Printing Co., plans 3 or 4 story and basement, rein.-con., brick and steel. $160,000. Meade & Hamilton, Garfield Bldg., Cleveland, O., engrs.

Ind., Monon—Factory—Granolite Art Products Co., 244 4th St., Milwaukee, Wis., having plans prepared by Leichenko & Esser, 38 South Dearborn St., Chicago, 1 story, 140 x 360 ft., fireproof, here. $150,000.

Wis., Milwaukee — Factory — Natl. Blow Pipe & Ventilating Co., 489 12th St., plans 1 story, 60 x 122 ft., brick and timber, plain foundation, 1st St. $50,000. Engineer and architect not selected.

Wis., Milwaukee — Packing — Plankinton Packing Co., Muskego Ave. and Canal St., plans to rebuild 3 story, packing plant, brick and timber, Muskego Ave., recently destroyed by fire. $40,000. Engineer and architect not selected.

Wis., New Richmond—Grain Mill—New Richmond Roller Mills, W. Grover, mgr., soon takes bids 2 story grain mill and elevator, rein.-con., plain foundation. $40,000. Private plans.

Wis., Oconto—Mill—Holt Hardwood Co. plans to rebuild 2 story mill, recently destroyed by fire. Engineer and architect not selected.

Wis., Osseo — Factory — Osseo Canning Co. taking bids 2 story, brick and timber addition, plain foundation. $40,000. Private plans.

Ia., Cedar Rapids — Factory — Ford-Renick Co. Ltd., having plans prepared by F. Friedline, Kentland, Ind., 6 story, 62 x 79 ft., rein.-con. and brick. $250,000.

Ia., Cedar Rapids — Plant — Ford & Renick Co., Ltd., having plans prepared by F. Friedline, Kentland, Ind., 4 story, 62 x 109 ft., rein.-con. and brick, package plant. $150,000.

Tex., Coleman — Plant — West Texas Utility Co. having plans prepared by R. H. Cameron, City National Bank Bldg., San Antonio, 1 story, 60 x 90 ft., rein.-con., brick and tile. $60,000. Noted Feb. 28.

Tex., Corsicana—Mill—Clopton Planing Mill Co., making plans 2 story, 100 x 125 ft., brick, East 4th St. $50,000. Engineer and architect not announced.

Tex., Dallas—Factory—Standard Spring & Axle Co., Commerce and Duncan Sts., plans 2 story, brick and concrete, Commerce St. $50,000.

Tex., Ranger—Plant—Phillips Petroleum Co., Breckenridge, making plans casinghead plant, near here. $150,000. Private plans.

Tex., Robstown—Mill Robstown Oil Mill Co. plans additions to mill. $50,000. Engineer not announced.

Okla., Guthrie — Plant — Aaron Produce Co. made final plans 1 story, 125 x 175 ft., brick addition to cold storage plant, plain foundation, Harrison St. $60,000. Private plans.

Okla., Owen — Plant — Owen-Osage Oil Co., Tulsa, takes bids about May 20, casinghead gasoline plant, 15,000,000 cu.ft. daily capacity, here. $40,000.

Calif., Crockett—Sugar Refinery, etc.—California-Hawaiian Sugar Refining Corp., Matson Bldg., San Francisco, plans additions to refinery and warehouse, here. $1,000,000.

Calif., Ontario—Pre-cooling and Packing Plant — West Ontario Citrus Assn. plans rein.-con. To exceed $100,000.

Ont., Orillia — Factory — Canada Wood Specialty Co. having plans prepared by E. Webb & Son, Orillia, 2 story, 50 x 80 ft. rein.-con. and brick, plain foundation. $75,000.

Que., Montreal—Laundry—Toilet Laundry Co. Ltd., 425 Richmond St., plans 6 story laundry, Guy St. $150,000.

China, Shanghai—Power Plant—Federal Telegraph Co., Alexander Bldg., San Francisco, Calif., having plans completed by Bakewell & Brown, 251 Kearney St., San Francisco, Calif., rein.-con. and steel, here. $250,000.

BIDS DESIRED

Mass., Boston—Plant—Green Shoe Mfg. Co., 35 Northampton St., taking bids 5 story, 42 x 170 ft., brick and timber, Harrison Ave. $100,000. W. L. Miner, 60 Pemberton Sq., archt.

Pa., Harrisburg—Power Plant—June 10, by Dept. Property & Supplies, Capitol Bldg., alterations and extensions to power plant in Capitol; adv. E. N.-R. May 15.

Pa., McDonald—Foundry—General Fdry. & Machine Co., Peoples Bank Bldg., Pittsburgh, taking bids 1 story, 60 x 75 ft., brick and steel, here. Private plans.

Pa., Pittsburgh — Power House — D. L. Clark Candy Co., Martindale St., will build 2 story, brick and concrete, Martindale St., by separate contracts. $45,000. P. Dietz, Lyceum Bldg., engr.

Pa., Sharon—Machine Shop and Service —Natl. Malleable & Steel Castins Co., Quincy St. and Woodhill Rd., Cleveland, O., taking bids 3 story, steel, brick and rein.-con., concrete foundation, South Dock St., here. $200,000. Private plans.

La., New Iberia — Power House — See "Waterworks."

Mo., Kansas City—Plant—Amer. Can Co., 120 Bway., New York City, will build rein.-con. and steel addition, plain foundation, here. $500,000. Work will be done by separate contracts. Private plans.

BIDS RECEIVED

N. Y., Brooklyn—Repair Shop—Transit Comn., 49 Lafayette St., New York, May 9, furnishing and erecting structural steel for electrical repair shop at Coney Island Yard, here, from J. P. Clark Co., 50 Grand Central Terminal, New York, $66,133. Noted May 1.

CONTRACTS AWARDED

N. Y., Brooklyn — Housing Station — Dept. Plant & Structures, Municipal Bldg., New York, housing station, 2nd Ave. and 11th St., here, to Eastern Constr. Co., 110 West 40th St., New York, $101,623. Noted Apr. 24.

N. Y., Brooklyn—Plant—E. R. Squibb, 36 Doughty St., rein.-con., brick and steel addition, plain foundation, Vine and Doughty Sts., to Turner Constr. Co., 244 Madison Ave. Archts. est. $500,000. Noted May 1.

N. Y., Eltingville—Substation—See "Unclassified under New York."

N. Y., Livingston—Substation—See "Unclassified under New York."

N. Y., New York—Plant—J. B. Snook Sons, archts. and engrs., 52 Vesey St., 16 story, 75 x 100 ft., rein.-con. and steel, concrete pile foundation, Varick St., to Turner Constr. Co., 244 Madison Ave., for Merchants Refrigerating Co., 161 Chambers St. Archts. est. $500,000. Noted Feb. 7.

N. Y., New York — Plant — Lockwood, Greene & Co., archts. and engrs., Pershing sq. Bldg., 11 story, 100 x 125 ft., rein.-con., West 45th St., to Hegeman-Harris Co., 185 Madison Ave., for Houbigant, Inc., 16 West 49th St. Noted Apr. 24.

N. Y., Portchester—Plant—Russell, Bursall & Ward Bolt & Nut Co., South St., 2 story, 60 x 340 ft., rein.-con. and steel, plain foundation, to Austin Co., 217 Bway., New York City.

N. J., Jersey City — Foundry — Boynton Furnace Co., Pacific Ave., 1 story, rein.-con. and steel, plain foundation, 40,000 sq.ft. floor space, to Austin Co., 217 Beay., New York City. Archts. est. $150,000.

Pa., Cheswick — Machine Shop — Hall Pump & Compressor Co., 213 Galveston Ave., N. S., Pittsburgh, 1 story, 60 x 160 ft., here, to J. A. McKay, Water and West Sts., Pittsburgh, $75,000.

O., Cleveland — Electric Sub Station — Cleveland Electric Illuminating Co., c/o E. J. Cook, engr., Illuminating Bldg., 1 story, 57 x 102 ft., brick, concrete and steel, East 165th St., to S. W. Emerson Co., 1836 Euclid Ave. Archts. est. $100,000.

O., Cleveland—Factory and Forge Shop —Peck, Stowe & Wilcox Co., 2176 West 3rd St., 1 story, 90 x 108 ft. and 3 story, 66 x 100 ft., brick and steel, 2176 West 3rd St., to H. K. Ferguson Co., 4900 Euclid Ave. Archts. est. $100,000.

O., Cleveland — Factory — Astrup Co., 2937 West 25th St., 2 story and basement, 50 x 97 ft., brick and rein.-con., 2937 West 25th St., to Natl. Concrete Fireproofing Co., Citizens Bldg. Archts. est. $50,000. Noted Apr. 10.

O., Cleveland — Factory — White Motor Co., 842 East 79th St., superstructure for 2 story, 150 x 160 ft., brick and steel, 825 East 79th St., to G. A. Rutherford Co., 2725 Prospect Ave. Archts. est. $200,000.

O., Zanesville—Factory—Mosaic Tile Co., 4 story, 80 x 160 ft., brick and concrete addition, Copemill and Dryden Rds., to R. H. Evans Co., Zanesville, $150,000. Second unit, 50 x 150 ft., will be constructed when above factory is completed. Noted May 1.

Ill., Chicago—Factory—Western Shade Cloth Co., 2100 South Jefferson St., 2 story, 123 x 400 ft., fireproof, 2100 South Jefferson St., to Raymond Concrete Pile Co., 111 West Monroe St. Archts. est. $500,000. Noted Apr. 17.

Ill., Chicago — Factory — Illinois Tool Wks., 154 West Erie St., 1 story, 240 x 240 ft., fireproof, 2501-09 North Keeler St., to F. H. Stowell Co., 28 North Clinton St. Engrs. est. $125,000.

Wis., Milwaukee—Plant—Zitron Bros., 157 Muskego Ave., 1 story, 50 x 100 ft., brick and timber, plain foundation, to T. Stark & Co., 130 Muskego Ave. Est. $40,000.

Wis., Racine—Plant—G. Pfleger, Route 1, 2 story, 40 x 50 ft., brick, title and concrete, plain foundation, to G. Henning, 338 Main St. $40,000. Noted Mar. 27.

Wis., Rhinelander — Plant — Rhinelander Paper Co. will build 1 story, 42 x 108 ft., brick and steel, addition, by day labor. $40,000. L. A. De Guere, Wood Blk., Wisconsin Rapids, engr.

Wis., Two Rivers—Foundry—Becker Mfg. Co., M. Becker, secy., will build 1 story, 54 x 112 ft., brick and steel, plain foundation, by day labor. $40,000. Private plans.

Wis., Wausau—Factory—Marathon Electric Mfg. Co., Plumer Island, 1 story, 52 x 116 ft., brick and concrete, plain foundation, to T. Kohl, 924 Jefferson St. $40,000.

Neb., Omaha—Warehouse and Garage—Nebraska Power Co., 15th and Farnum Sts., will build 1 story and basement, 113 x 262 ft. rein.-con. and brick, 4310 Leavenworth St., by day labor. $150,000. F. S. Stott, 216 Kennedy Bldg., archt. Noted Dec. 6.

Mo., St. Louis—Factory—S. G. Adams Stamp & Stationery Co., 410 North 6th St., general contract 4 story and basement, 50 x 134 ft., brick and concrete, Garrison and Franklin Aves., to Gillespie & Daly, 722 Chestnut St. Archts. est. $50,000. Noted Apr. 3.

Calif., Eureka—Ice Plant—Eureka Ice & Cold Storage Co., ice plant, 50,640 sq.ft. floor space, to Mercer-Fraser Co., Eureka. Noted May 10, 1923.

Calif., Fresno—Ice Plant—Peoples Ice Corp., 2035 South Bway., J. R. Irskine, mgr., 2 story, steel and concrete addition to ice plant, to R. Hess, Fresno, $80,000. Noted Jan. 24.

Calif., Los Angeles — Packing Plant — Cudahy Packing Co., 803 Macy St., 3 and 4 story, 103 x 137 ft., rein.-con. and brick, to North Pacific Constr. Co., Detwiler Bldg., $180,000. Noted Apr. 10.

Calif., Oakland — Factory — New Metal Products Co., c/o E. B. Field Co., 301 13th St., 1 story, 100 x 100 ft. rein.-con., 59th and Doyle Sts., to Barrett & Hilp, 918 Harrison St., San Francisco. To exceed $40,000.

Calif., Oakland — Factory — Aluminum Cooking Utensil Co., Monadnock Bldg., San Francisco, 2 story, rein.-con., 46th St., here, to K. E. Parker Co., 519 California St., San Francisco, $97,625.

Calif., Sacramento — Creamery — Glenn Dairy Co., 3673 Folson Blvd., 2 story, rein.-con., to Holdener Constr. Co., 2608 R St., $50,000. Noted May 8.

Calif., Stockton—Shops, etc.—Western Pacific R.R. Co., Mills Bldg., San Francisco, rein.-con. shops, roundhouse, storerooms, etc., here, to W. A. Betchel, 625 Market St., San Francisco.

Ont., Toronto—Factory—Dominion Tar & Chemical Co., Bathurst St., 2 or 3 story, 80 x 200 ft. rein.-con., brick and steel, plain foundation, to Anglin-Norcross Ltd., Temple Bldg. Archts. est. $200,000.

Buildings

PROPOSED WORK

Mass., Boston—Court House—City plans courthouse, Wilson Park. $225,000.

Mass., Boston—Home—City Overseers of the Poor, Chardon St., having plans prepared by Newhall & Blevens, 9 Park St., 3 story, 48 x 65 ft. and 4 story, 58 x 90 ft., rein.-con., Chardon St. $350,000.

Mass., Brockton—Apartment—Stone & Alexander, Spring St., had plans prepared by C. T. Olson, Main St., 4 story and basement, 97 x 107 ft., brick and stone, West Elm and Newbury Sts. $150,000.

Mass., Brockton—School—H. Porter, chn. School Bd., having plans prepared by G. L. Falk, 153 Main St., grade school and assembly hall, brick, Oakdale St. and Oakland Ave., $200,000.

Mass., Cambridge — Theatre — F. Shea, Arlington Hotel, Boston, plans 110 x 130 ft., rein.-con. and brick, Howard St., here. $150,000. Private plans.

Mass., Edgartown—School—Town having plans prepared by Brainerd & Leeds, 89 Franklin St., Boston, for Union School, 2 story, 60 x 110 ft., brick and stone, near West Tisbury Rd. $150,000.

Mass., Fall River—Church—United Presbyterian Church Society had plans prepared by F. R. Hindle, 72 Weybosset St., Providence, R. I., 50 x 150 ft., brick, Rock and Walnut Sts.

Buildings (Continued)

Mass., Holyoke — School — W. H. Peck, supt. schools, having sketches made by McLaughlin & Burr, 88 Tremont St., Boston, school. $160,000.

Mass., New Bedford—Apartment—S. E. Shea, Times Bldg., had plans prepared by Leary & Walker, Times Bldg., 5 story, 120 x 130 ft., brick. $400,000.

Mass., Springfield — School — School Bd. having plans prepared by M. W. Maloney, 23 Pearl St., 2 story, rein.-con. and brick. $300,000.

Mass., Waltham — Hospital — Waltham Hospital Corp. plans addition to hospital. $300,000. J. C. Plan, chn. executive com.

Mass., West Somerville—Church—Methodist Episcopal Church Society plans 60 x 100 ft., church, chapel and school, stone and brick, College Ave. and Chapel St. $275,000. Woodbury & Stewart, 51 Boylston St., Boston, archts.

Mass., Winthrop—School—Bd. Selectmen having plans prepared by Brainerd & Leeds, 89 Franklin St., Boston, 1 and 2 story, rein.-con. and brick, Hernan St. $280,000.

N. Y., Brooklyn—Hotel—S. Welsch & Sons, c/o Shampan & Shampan, archts. and engrs., 189 Montague St., having plans prepared 6 story, brick, steel and stone, plain foundation, 25 Lafayette Ave. $400,000.

N. Y., Jamaica—Y. M. C. A., 55 Hanson Pl., Brooklyn, having plans prepared by G. W. Conable, archt. and engr., 46 West 24th St., New York, 4 story, 100 x 175 ft., brick, steel and stone, plain foundation, Flushing Ave. and Grove St., here.

N. Y., New York — Apartment — One Eleven West 16th St. Co., c/o Gronenberg & Leuchtag, archts. and engrs., 450 4th Ave., having plans prepared 6 story, brick, steel and stone, plain foundation, 107 West 16th St. $200,000. D. H. Knott, pres.

N. Y., New York—Bank and Office—Corn Exchange Bank, 13 William St., soon takes bids 7 story, 50 x 100 ft., brick, steel and stone addition, plain foundation, Bway. and Liberty St. W. W. Chapin, 347 Madison Ave., archt. and engr.

N. Y., New York — Hospital — Lebanon Hospital, Westchester and Cauldwell Aves., having sketches made by C. B. Mayer, archt. and engr., 31 Union Sq., 10 story, brick, steel and stone, plain foundation, Grand Concourse between 173rd St. and Mt. Eden Ave. $2,000,000.

N. Y., White Plains — Apartment — C. Herman, c/o G. A. Bagge & Sons, archts. and engrs., 299 Madison Ave., New York City, having plans prepared 3 story, 175 x 600 ft., brick, steel and stone, plain foundation, South Bway., here. $400,000.

N. J., Camden—Hotel—Community Hotel Corp., c/o W. Kennedy, secy., 533 Market St., plans hotel, Bway. and Cooper St. $1,250,000. H. L. Stevens & Co., 522 5th Ave., New York City, archts.

N. J., Newark — Schools — Bd. Educ., Broad St., having preliminary plans prepared by Guilbert & Bettelle, 2 Lombardy St., school on Van Buren St., $315,000, and on Richelieu Terrace, $250,000, both brick, steel and stone, plain foundations.

N. J., Princeton — Triangle Club of Princeton University, plans theatre. $400,000. D. C. Stuart, 182 Western Way, chn. com.

Pa., Somerset — Hospital, etc. — Comrs. Somerset Co., plan 3 story and basement, 90 x 140 ft., rein.-con., brick and steel, hospital, auditorium, etc. $150,000.

Md., Baltimore — Animal House and Aviary — Mayor and City Council, City Hall, rejected bids 1 story and basement, 60 x 410 ft., brick and stone, Druid Hill Park. Noted May 8.

W. Va., Huntington—Hotel—F. C. Prichard, Robson-Prichard Bldg., having plans prepared by J. Z. Dietz, State Savings & Trust Bldg., Indianapolis, Ind., 13 story, 120 x 200 ft., rein.-con., marble, brick and steel, 6th Ave. $2,500,000.

W. Va., Huntington — Office — W. H. Lewis, 817 4th Ave., takes bids about June 15, 10 story, 50 x 110 ft., rein.-con., brick and steel, 5th Ave. $200,000. Meanor & Handloser, Professional Bldg., archts. Noted May 8.

W. Va., Parkersburg—Hotel—E. A. Brast Co. will have plans revised 6 story, rein.-con. and brick, plain foundation. Former bids rejected. $150,000. Pleasants, Pennington & Lewis, 477 5th Ave., New York City, engrs. Noted Apr. 24.

Ga., Atlanta — Church — Druid Hill Baptist Church, 765 P de L Ave., having plans prepared by Daugherty & Gardner, Stahlmans Bldg., Nashville, Tenn., 1 story, brick and stone. $250,000.

Fla., Lakeland — City Hall and Auditorium—Election June 10, $275,000 bonds, city hall and auditorium.

Fla., Lakeland—Hospital—City election June 10, $300,000 bonds, hospital.

Ala., Birmingham — Club — Birmingham Athletic Club, 510 North 20th St., plans 10 story, 75 x 110 ft., 3rd Ave. and 23rd St. $1,300,000. Engineer and architect not selected.

Ala., Birmingham — Hotel — Tutwiler Hotel Co., 2000 5th Ave., having plans prepared by Miller & Martin, Title Bldg., and soon takes bids 10 story, 110 room, rein.-con. and steel addition, 20th St. and 5th Ave. $440,000.

Ala., Birmingham—Store—L. Pizitz, 118 19th St., plans 7 story, 75 x 110 ft., 19th St., 2nd Ave. $1,500,000.

Ala., Gadsden—Bank—City Natl. Bank soon takes bids 6 story, 50 x 125 ft., rein.-con. and steel, 4th and Broad Sts. $150,000. A. D. Simpson, Gadsden, archt.

La., New Orleans — Auditorium — M. Behrman, chn. Convention and Tourists Bureau, of Assn. of Commerce, asked A. D. Danziger, Carondelet Bldg., to submit plans for proposed auditorium. $1,500,000. Half of sum required will be financed through loaning company other half raised by public subscription. When complete will be turned over to Assn. of Commerce for maintenance and operation.

Tenn., Nashville — Administration — G. Peabody College for Teachers plans administration building, on campus. $200,000.

O., Cincinnati — Clubhouse — Knights of Columbus, 16 East 9th St., plans 7 story, brick and stone, 9th St. $600,000. J. F. Sheblessey, 1202 Republic St., archt.

O., Cincinnati—Dormitory—Conservatory of Music, Burnet and Highland Sts., soon lets contract 5 story, brick addition. $150,000. W. B. Tuthill, 185 Madison Ave., New York City, archt.

O., Cleveland — Apartment — M. F. Narosny, 12216 Edmonton Ave., had plans prepared by M. Weis, 617 Union Bldg., 3 story and basement, 38 x 144 ft., brick 1910 East 93rd St. $150,000. Noted Aug. 9.

O., Cleveland—Apartment—J. Schnader, 1089 East 125th St., has plans prepared by M. Weis, 617 Union Bldg., 3 story and basement, 89 x 108 ft., brick and wood, East 138th St. $150,000.

O., Cleveland — Apartment — M. Swee, 3472 East 123rd St., had plans prepared by A. W. Harris, Discount Bldg., 3 story and basement, 104 x 162 ft., brick, North Morland Blvd. $300,000.

O., Cleveland—Commercial—J. C. Latimer, Union Trust Bldg., having sketches made by Miller & James Co., Erie Bldg., brick, Oregon Ave. $200,000.

O., Columbus—Office—Amer. Insurance Union, 44 West Broad St., having plans prepared by Crane & Kiehler, 542 Griswold St., Detroit, Mich., 17 story and basement, rein.-con., brick and steel, plain foundation. Noted Feb. 28.

O., Kent — Physical Education — Bd. Trustees State Normal School having plans prepared by Roman & Ingleson, 1614 North High St., Columbus, 3 story and basement, rein.-con. and brick. $160,000.

O., Lakewood—Apartment—Narosny & Libhaber, 11523 Tuscora Ave., Cleveland, having plans prepared by L. R. Walker and J. L. Mauer, 1900 Euclid Ave., Cleve-

SUBWAY—BROOKLYN, N. Y.

Following are lowest three bids opened by Transit Comn., 49 Lafayette St., New York City, Apr. 25, for Sect. 2 of Route 70, a part of Rapid Transit Railroad, (A) Oakdale Contg. Co., Inc., 93 Amity St., Flushing (awarded contract; not yet approved by Bd. Estimate); (B) Patrick McGovern, Inc., 50 East 42nd St., New York City; (C) Frederick L. Cranford, Inc., 149 Remsen St., Brooklyn. The unit bids were as follows:

	A	B	C
196,050 cu.yd. earth excavation above M.H.W.	$6.90	$9.50	$11.32
50,230 cu.yd. earth excavation below M.H.W.	7.00	9.50	14.32
1,750 cu.yd. earth excavation above and below M.H.W. for sewers	7.00	9.50	11.32
32,660 cu.yd. concrete masonry in place	16.00	24.50	21.50
160,000 sq.ft. rubbing surface of concrete	.10	.05	.15
6,800 cu.yd. protective concrete masonry in place	16.00	25.00	25.00
20 cu.yd. rubble stone masonry in place	10.00	15.00	12.00
20 cu.yd. dry rubble masonry in place	10.00	12.00	10.00
80 cu.yd. brick masonry in place	32.00	50.00	35.00
15 cu.yd. hollow terra cotta brick or tile masonry	32.00	50.00	35.00
100 bbl. grout of portland cement	6.00	6.00	8.00
25 cu.yd. broken stone or gravel in place	4.00	3.50	4.00
Waterproofing			
33,180 sq.yd. (*a*) 1-ply	.90	1.25	1.25
28,000 sq.yd. (*c*) 3-ply	2.10	2.75	2.50
100 sq.yd. (*d*) 4-ply	2.65	4.60	3.00
1,500 sq.yd. (*f*) 6-ply	3.80	6.90	3.50
100 sq.yd. (*i*) dry ply	.65	1.10	1.25
4,700 cu.yd. waterproofing, brick in asphalt mastic	40.00	50.00	45.00
Cast iron pipe and fittings			
1,550 lin.ft. (*a*) 3 in.	.90	1.15	1.50
230 lin.ft. (*b*) 4 in.	1.00	1.35	2.00
1,100 lin.ft. (*c*) 6 in.	1.60	2.50	2.00
5,500 lin.ft. (*d*) 8 in.	2.30	3.50	3.00
140 lin.ft. (*e*) 10 in.	3.00	4.50	3.50
Standard galvanized W.S. pipe			
100 lin.ft. (*a*) 3 in.	1.00	1.50	1.75
240 lin.ft. (*b*) 4 in.	1.50	2.00	2.00
100 lin.ft. (*c*) 6 in.	2.00	2.80	2.50
50 lin.ft. (*d*) 8 in.	3.00	5.00	5.00
145,000 duct. ft. tunnel ducts in place	.25	.30	.30
1,000 duct. ft. 3 in. fibre conduits in place	.25	.40	.40
1,900 ton riveted steel	105.00	150.00	150.00
4 ton architectural steel and iron	264.00	350.00	300.00
390 sq.ft. (*b*) steel doors and appurtenances (complete)	6.00	9.00	5.00
2 counterbalanced emergency exit covers (complete)	240.00	500.00	300.00
2,410 ton steel beams and shapes	105.00	150.00	150.00
540 ton steel rods and bars	96.00	80.00	105.00
8 ton miscellaneous iron castings except for sewers and pipe	250.00	160.00	250.00
16 ton miscellaneous iron castings for sewers	120.00	100.00	300.00
7,600 lb. special wire forms in place	.20	.15	.30
3,000 lin.ft. hand rail	.42	.35	.75
7,000 sq.ft. steel gratings for ventilation	2.70	2.50	3.50
270 sq.ft. vault lights	3.00	3.25	3.50
Street surface restored			
6,465 sq.yd. (*a*) within curb lines	3.00	2.00	4.50
20,320 sq.yd. (*e*) between curb lines, asphalt pavement	4.80	4.50	7.00
850 sq.yd. (*f*) between curb lines, granite block	4.20	8.00	5.00
250 lin.ft. (*i*) new bluestone curb, in place	1.50	3.50	2.50
200 sq.yd. constructing and finishing upper 3 in. concrete walls and slabs	1.80	1.50	4.50
120 removing and delivering memorial trees	108.00	85.00	25.00
Wrought steel electric conduits			
19,700 lin.ft. (*a*) ¾ in.	.25	.20	.60
100 lin.ft. (*b*) 1¼ in.	.40	.35	.60
100 lin.ft. (*c*) 2 in.	.50	.45	1.00
16,600 lin.ft. (*d*) 1 in.	.30	.25	.60
1,530 cast iron outlet boxes	1.20	1.00	2.50
10 cast iron pull boxes	3.00	5.00	10.00
16 steel splicing boxes 36 in. x 30 ft. x 7 in.	12.00	10.00	10.00
Cast iron pipe including specials			
150 lin.ft. (*a*) 6 in.	1.60	2.00	3.00
90 lin.ft. (*b*) 3 in.	1.00	1.00	2.00
20 lin.ft. (*c*) 4 in.	1.50	1.50	2.50
100 lin.ft. (*f*) 8 in.	2.50	3.50	4.00
2,130 lin.ft. 12 in. vitrified pipe sewer	2.65	4.40	5.00

	A	B	C
115 lin.ft. 15 in. vitrified pipe sewer	3.60	7.00	7.00
2,420 lin.ft. 18 in. vitrified pipe sewer	3.75	7.20	8.00
1,265 lin.ft. 20 in. vitrified pipe sewer	4.50	7.80	8.00
115 lin.ft. 22 in. vitrified pipe sewer	5.50	10.45	10.00
3,100 lin.ft. 24 in. vitrified pipe sewer	6.10	9.50	10.00
125 ton cast iron pipe (straight)	107.00	205.00	100.00
62 ton cast iron pipe (special)	210.00	230.00	200.00
75 lin.ft. 6 ft. reinforced concrete circular sewer	48.00	40.00	50.00
Flat top reinforced concrete sewers			
240 lin.ft. (a) 3 ft. 6 in. x 2 ft. 4 in.	12.00	19.00	30.00
875 lin.ft. (c) 4 ft. x 2 ft. 6 in. sewers	13.20	22.00	22.00
75 lin.ft. reinforced horseshoe sewer 7 ft. 6 in. x 9 ft. 6 in.	180.00	83.00	100.00
350 lin.ft. (c) electric overhead trolley	7.20	10.00	10.00
Maintaining and supporting elevated railroad (lump sum)	10,000.00	2,300.00	6,000.00
3,200 lin.ft. 6 in. water pipe	.80	1.00	2.00
100 lin.ft. 8 in. water pipe	1.00	1.50	3.00
100 lin.ft. 12 in. water pipe	1.50	2.00	3.00
100 lin.ft. 16 in. water pipe	1.80	2.50	5.00
630 lin.ft. 20 in. water pipe	2.00	3.00	10.00
100 lin.ft. 30 in. water pipe	3.50	3.50	12.00
100 lin.ft. 36 in. water pipe	5.00	5.00	12.00
100 lin.ft. 48 in. water pipe	6.00	8.00	15.00
35 service connections for water pipe	20.00	50.00	30.00
100 lin.ft. maintaining 66 in. aqueduct	60.00	10.00	50.00
100 lin.ft. 3 in. cast iron gas pipe	.40	1.00	2.00
420 lin.ft. 4 in. cast iron gas pipe	.60	1.00	2.50
2,140 lin.ft. 6 in. cast iron gas pipe	.80	1.25	3.00
920 lin.ft. 8 in. cast iron gas pipe	1.00	1.80	3.00
100 lin.ft. 10 in. cast iron gas pipe	1.20	2.00	3.00
100 lin.ft. 12 in. cast iron gas pipe	1.50	2.50	3.50
100 lin.ft. 16 in. cast iron gas pipe	1.60	3.00	5.00
370 lin.ft. 20 in. cast iron gas pipe	2.00	5.00	5.00
7,130 lin.ft. (a) 6 in. W.S. by-passing pipe	3.50	8.00	6.00
1,050 lin.ft. (h) 4 in. W.S. by-passing pipe	3.00	5.00	5.00
160 lin.ft. (a) 12 in. W.S. by-passing pipe above street surface	6.60	10.00	10.00
200 lin.ft. (b) 16 in. W.S. by-passing pipe above street surface	10.50	16.00	13.00
580 lin.ft. (c) 20 in. W.S. by-passing pipe above street surface	13.00	20.00	15.00
270 lin.ft. (h) trestle support	2.40	25.00	8.00
520 lin.ft. (i) cable suspension for pipe over 16 in.	3.60	25.00	8.00
140 lin.ft. (j) cable suspension for pipe 16 in. or under	3.60	25.00	6.00
35 service connections for gas pipe	20.00	50.00	50.00
70 ton new c.i. hub and spigot pipe (straight)	84.00	105.00	100.00
40 ton new c.i. hub and spigot pipe (special)	192.00	205.00	200.00
28,000 duct ft. electric ducts and conduits in place	.36	.35	.40
Wrought steel pipe electric ducts and conduit			
120 lin.ft. (a) 2½ in.	.40	.60	1.00
230 lin.ft. (b) 3 in. pipe	.40	.80	1.50
140 lin.ft. (c) 3½ in. pipe	.60	1.00	2.00
100 lin.ft. (n) 2 in. pipe	.30	.40	1.50
140 lin.ft. (g) 4½ in. pipe	.60	1.30	2.50
35 service connections electric ducts	36.00	75.00	60.00
1,060 lin.ft. (a) 3 in. wooden electric ducts and conduits	.60	.40	.60
120 lin.ft. (c) 4 in. wooden electric ducts and conduits	.60	.60	.75
5,250 lin.ft. (a) 3 in. fibre electric ducts and conduits	.50	.35	.40
2,300 lin.ft. (b) 3½ in. fibre electric ducts and conduits	.50	.40	.50
280 lin.ft. (c) 4 in. fibre electric ducts and conduits	.50	.45	.60
15 service boxes on relocated duct lines	36.00	100.00	150.00
10 junction boxes on relocated duct lines	240.00	500.00	250.00
10 junction boxes additional	840.00	500.00	300.00
Extended totals (including underpinning of buildings)	$3,948,830	$4,974,296	$5,919,506

Buildings (Continued)

land, 3 story, brick and timber, plain foundation, Clifton Blvd. and Cove Ave., here. $150,000.

Ind., Evansville — Community — Trinity Methodist Church plans community house. $200,000. A. E. Craig, pastor. Engineer and architect not selected.

Ind., Indianapolis—Apartment—T. W. De Hass, Hume-Mansur Bldg., having plans prepared by George & Zimmerman, Meyer-Kiser Bank, 3 story and basement, rein.-con. and brick, McClain Pl. $150,000.

Ind., Indianapolis—Apartment—George & Zimmerman, archts., 501-3 Meyer-Kiser Bank Bldg., making plans and soon takes bids 3 story and basement, brick and stone, North Meridian St., for W. Woodbridge, 2258 North Meridian St. $190,000.

Ind., Indianapolis—Hospital—Bd. Health having plans prepared by A. Scherrer, Ind. Trust Bldg., remodeling and additions, incl. detention ward, completing 3rd and 4th floors of nurses' home, etc., brick. $280,000.

Ill., Chicago — Apartment — Daemicke Bros., c/o T. R. Bishop, archt., 35 South Dearborn St., plans 3 story, 132 x 151 ft., fireproof, 6446-58 Kenwood St. $475,000.

Ill., Chicago—Apartment—Smolin & Gumbiner, c/o Dubin & Eisenberg, archts., 14 West Washington St., plans 3 story and basement, fireproof, Horne and Pierce Sts. $500,000.

Ill., Chicago — Hospital — Masonic Hospital Assn., c/o G. F. Schreiber, archt., 105 West Monroe St., plans 6 story, fireproof, Wellington St. near Florence St. $250,000.

Ill., Chicago—Hospital—Southwest General Hospital, c/o B. H. Jillson, archt., 30 North Michigan St., plans 4 story, 50 x 170 ft., fireproof, Wood and 57th Sts. $200,000.

Ill., Chicago—Temple—Memorial Masonic Temple Assn., c/o G. E. Dewey, 1414 South Michigan Ave., plans 6 story, fireproof, Drexel and 49th Sts. $500,000. W. W. Bendus, 332 South Michigan St., archt.

Ill., Rogers Park (Chicago P. O.)—High School—See "Excavation, Drainage, Irrigation" under "Contracts Awarded."

Ill., Springfield—Temple—A. A. O. N. M. S. having plans prepared by Johnson, Miller, Miller & Yeager, 30 North 5th St., Terre Haute, Ind., 4 story and basement, 130 x 170 ft., rein.-con. $800,000.

Wis., Appleton—Church—First Methodist Congregation, J. Holmes, pastor, 737 Lawrence St., soon takes bids 2 story, stone and concrete, plain foundation. $250,000. Childs & Smith, 720 North Michigan Blvd., Chicago, archts.

Wis., Beloit—School—St. Jude Congregation, c/o J. Hanz, pastor, 747 Hackett Ave., had plans prepared by F. H. Kemp, Beloit, 2 story and basement, brick and tile, plain foundation. $150,000.

Wis., Milwaukee — Apartment — J. F. Zivnuska, 582 Mitchell St., plans 3 story, brick and concrete, plain foundation, Grand Ave. Engineer and architect not selected.

Wis., Milwaukee — Warehouse — E. R. Godfrey & Sons, 294 Bway., plans 8 story and basement, brick and concrete, plain foundation, Bway. $150,000. Engineer and architect not selected.

Neb., Omaha—Church—Dundee Presbyterian Church, 50th St. and Underwood Ave., c/o J. J. Dodds, had plans prepared and takes bids about June 1, 1 story and basement, 160 x 165 ft. $250,000. C. Steinbaugh, 662 Brandeis Theater Bldg., archt.

Neb., Omaha—Hall and Community—Knights of Columbus, 2301 Harney St., having plans prepared by L. A. Daly, 662 Peters Trust Bldg., 6 story and basement, 140 x 152 ft. rein.-con., brick and steel, 20th and Dodge Sts. $500,000. Noted Jan. 24.

Neb., Omaha—Hospital—St. Catherines Hospital had plans prepared by L. A. Daly, 622 Peters Trust Bldg., 3 story and basement, 60 x 180 ft., 811 Forrest Ave. $200,000.

Mo., St. Louis—Market—City soon takes bids 3 story and basement, 226 x 270 ft., rein.-con., brick, stone and steel, Bway. $1,350,000. L. R. Bowne & H. Updike, 301 City Hall, archts. E. E. Christopher, 301 City Hall, engr. Noted Jan. 31.

Tex., Dallas—Office—Lang & Witchell, archts., Amer. Exch. Natl. Bank, takes bids latter part of month, 14 story and basement, 90 x 106 ft. brick, steel and concrete, Browder and Wood Sts., for Southern Exch. Building Co., c/o architects. $800,000.

Tex., El Paso—Schools—Voted $500,000 bonds for 2 schools, brick and concrete. Address Mayor Dudley. Noted Apr. 24.

Tex., Houston—Bank and Office—Pub. Natl. Bank making plans 6 story and basement, brick, concrete and steel, Main and Preston Sts. $300,000. Engineer and architect not announced.

Tex., Sherman—Administration—Austin College, steel, plans brick and concrete, on campus. $300,000. Engineer and architect not selected.

Okla., Bartlesville — High School — Bd. Educ. had preliminary plans prepared 3 story and basement, 120 x 220 ft., rein.-con. and brick, plain foundation, 4th St. $390,000. Architect not selected.

Ariz., Phoenix — School — St. Marys Parochial School having plans prepared by Lescher & Mahoney, Bank of Arizona Bldg., fireproof, Polk and 3rd Sts. $150,000.

Ariz., Phoenix—Temple—Masonic Bodies having plans prepared by Lescher & Mahoney and V. Wallingford, archts., Bank of Arizona Bldg., 2 story and basement, 100 x 150 ft., brick or concrete. $150,000.

Ariz., Tucson — Church — First Baptist Church having plans prepared by R. H. Orr, Corporation Bldg., Los Angeles, 100 x 130 ft. brick. $150,000.

Ariz., Tucson—School—Trinity Presbyterian Church having plans prepared by R. H. Orr, Corporation Bldg., Los Angeles, 2 story and basement, brick school to be used temporarily as church. $150,000.

Colo., Denver—Store—Denver Dry Goods Co. having plans prepared by M. H. and B. Boyt, Colorado Natl. Bank Bldg., 2 story, 80 x 207 ft. addition, 16th and California Sts. $350,000.

Ore., Portland — Monastery — Servite Fathers, 3121 West Jackson St., Chicago, had preliminary plans prepared by Houghtaling & Dougan, Gearin Bldg., 8 buildings, main one to be 150 x 400 ft., Sandy Blvd. and 82nd St., near here. $5,000,000-$7,000,000. A. M. Mayers, 909 South Smith Ave., in charge. $1,000,000 will be spent this year and bids will be let from time to time on small units.

California — Hospital — City and San Francisco Co. having plans prepared by H H. Meyers, Kohl Bldg., San Francisco, fireproof tuberculosis hospital in hills of San Mateo Co. To exceed $150,000.

Calif., Crockett—Warehouse—See "Industrial Works."

Calif., Emeryville — Warehouse, etc. — Pacific Gas & Electric Co., 445 Sutter St., San Francisco, plans warehouse and distributing station, here. To exceed $300,000. Probably private plans.

Calif., Huntington Park (Branch of Los Angeles)—Bank and Office—Hellman Commercial Trust & Savings Bank, 601 South Main St., Los Angeles, having plans prepared by A. S. Heineman, San Fernando Bldg., Los Angeles, 3 story and basement, 50 x 150 ft., brick, here.

Calif., Long Beach—School—Southwest Military Institute, c/o Wright & Gentry, archts., Marine Bank Bldg., having plans prepared fireproof group of school buildings. $175,000.

Calif., Los Angeles — Church — First Church of Christ Scientist, c/o Milwaukee Building Co., archts., Wright-Callendar Bldg., having preliminary plans prepared church, probably brick with basement, Orange St. $150,000.

Calif., Los Angeles—Club and Office—Los Angeles Ad Club, c/o J. J. Frauenfelder, archt., Story Bldg., having preliminary plans prepared 10 to 12 story and pasement, 50 x 180 ft., fireproof, Orange St.

Calif., Los Angeles — Nurses Home — Methodist Hospital c/o Rea & Garstang, archts., Trust & Savings Bldg., having plans prepared 5 story and basement, brick and rein.-con., Grand Ave. To exceed $250,000.

Calif., Los Angeles—Warehouse—Neptune Meter Co., 701 East 3rd St., having plans prepared by W. J. Saunders, Laughlin Bldg., 3 story (ultimately 6 story) and basement, 131 x 177 ft., rein.-con., Alameda and 3rd Sts.

Calif., Oakland—Bank and Office—Central Natl. Bank, 14th St. and Bway., having sketches made by G. W. Kelham, Sharon Bldg., San Francisco, Class A, probably rein.-con. $1,000,000.

Calif., Oak Park (Sacramento P. O.)—Theatre, Store and Office—M. T. Jorgensen, archt., 110 Sutter St., San Francisco, preparing plans brick, here. $150,000. Owner's name withheld.

Buildings (Continued)

Calif., San Diego—High School—Bd. Educ. having plans prepared by E. F. Banning, 206 Bancroft Bldg., 2 story, 129 x 250 ft., tile and brick, Point Loma Dist. $200,000.

Cal., San Fernando—Theatre, Store and Office—San Fernando Theatre and Holding Co., Inc., c/o A. G. Bailey, archt., Junior Orpheum Bldg., Los Angeles, had preliminary plans made 2 story, 75 x 150 ft., rein.-con. and steel, Porter St.

Calif., San Francisco—Apartment—J. and J. Goldstein, c/o E. E. Young, archt., 2002 California St., completing plans 6 story and basement, rein.-con., Hyde and Sutter Sts. $150,000.

Calif., San Francisco—Apartment—J. Steur, 760 Geary St., having plans prepared by J. C. Hladik, Monadnock Bldg., 6 story and basement, brick, Sutter St. near Leavenworth St. $150,000.

Calif., San Francisco—Hotel—W. F. Gunnison and H. P. Merritt, archts., 57 Post St., having plans prepared 5 story and basement, rein.-con. addition to hotel. $150,000. Owner's name withheld.

Calif., San Francisco—Office and Loft—United Holding Co., c/o W. A. Stephen, archt., 351 Kearny St., having plans prepared 4 story and basement, rein.-con., Julia and Mission Sts. $150,000 or more.

Calif., San Francisco—Police Station—City and San Francisco Co. having preliminary plans prepared by A. I. Coffey, Humboldt Bank Bldg., 2 story, rein.-con., 4th and Clara Sts. $150,000.

Calif., Santa Monica—Church—St. Monicas Church having preliminary plans prepared by A. C. Martin, Higgins Bldg., Los Angeles, brick, 8th St. $150,000. School and parish house will be erected when church is completed.

Calif., Visalia—Lodge—The Masonic Lodges of Visalia plan fireproof, Court St., South. $150,000.

Que., Berthier—Hotel—P. Beaudoin, Berthier, plans to rebuild 4 story, 80 x 80 ft., recently destroyed by fire. $150,000. Architect's name withheld.

Que., Cartierville—Home—Sisters of Home for Incurables, having plans prepared by Viau & Venne, 99 St. James St., Montreal, 5 story, 75 ft. high, 52 x 2,700 ft., rein.-con. and brick, Gouin Blvd., here. $2,500,000.

Que., Montreal—Schools—Catholic School Comrs., 87 St. Catherine St. W., having plans prepared by I. Vautrin and J. Venne, 30 St. James St., Meilleur School, Rouen St. $300,000; by Viau & Venne, 99 St. James St., St. Philomene School, Rosemount Ave. $150,000; by David & Brosseau, Keiffer Bldg., St. Catherine St. W., St. Croix School, De Biencourt St., $214,000, and St. Augustine de Canterbury School, Cote St. Antoine Rd. $150,000; by Gascon & Parent, 502 St. Catherine St. E., St. Margaret Mary School, Delormier Ave., $150,000; by J. O. Marchand, 294 St. Catherine St. E., St. Ambroise School, De-Normandville St. $750,000.

Que., Westmount—Hall—City plans to issue $200,000 bonds, reconstructing Victoria Hall, Sherbrooke St. W. A. McLagan, mayor.

Ont., Cobourg—College—Bd. Educ. having plans prepared by Power Son & Drever, Kingston, 2 story and basement, 8 room, rein.-con., brick and steel, plain foundation, $150,000.

Ont., Toronto—School—Separate School Bd., 477 Jarvis St., having plans prepared by J. M. Cowan, 991 Bay St., 2 story and basement, 10 room, rein.-con., brick, stone, steel and tile, plain foundation, $175,000.

Ont., Toronto—Forestry—University of Toronto, Queens Park, having plans prepared by Darling & Pearson, 2 Leader Lane, 3 story and basement, rein.-con., brick and steel, plain foundation, Queens Park. $150,000.

BIDS DESIRED

Mass., Boston—Apartment—Coleman & Gibert, 331 Huntington Ave., taking bids 5 story, 150 x 200 ft., fireproof, Huntington Ave. and Opera Pl. $200,000. Funk & Wilcox Co., 26 Pemberton Sq., archts.

N. Y., New York—Nurses School—May 19, by Medical Superintendent, Bellevue Hospital, 415 East 26th St., additional wings to Bellevue training school for nurses. Former bids rejected. Noted May 8.

N. Y., New York—School—June 10, by W. H. Gompert, supt. school buildings, Flatbush Ave. extension and Concord St., Brooklyn, P. S. 73, Anderson Ave., Bronx Boro, here, for Bd. Educ., 500 Park Ave. Noted July 12.

N. Y., New York—Synagogue—Congregation Shearith Israel, c/o B. H. and C. N. Whinston, archts. and engrs., 2 Columbus Circle, will build brick, steel and stone, plain foundation, Southern Blvd. and Intervale Ave. $150,000. Work will be done by separate contracts under supervision of architects. Noted May 1.

N. J., Trenton Junction (Trenton P. O.)—Dormitory—May 28, by B. G. Lewis, State Office Bldg., Trenton, 2 story, brick and steel, concrete pile foundation, here, for New Jersey School for Deaf. $235,000. A. H. Moses, Temple Bldg., Camden, engr. Guilbert & Betelle, Commerce Bldg., Newark, archts.

Pa., Grove City—Church—June 2, by Grove City Presbyterian Church and J. C. Fulton & Son, archts., Thompson Ruby Bldg., 2 story and basement, 100 x 180 ft., brick and stone, Pelton Hall site. $300,000.

Pa., Hazelton—Church—May 20, by J. S. Fagan, pastor St. Gabriels Roman Catholic Church, 1 story and basement, 66 x 150 ft. brick and steel, 121st St. and Wyoming Ave. $330,000. P. S. Sheridan, Markle Bank Bldg., archt.

Pa., Monaca—Factory—Superior Steel Co., c/o M. P. Simpson, 431-3 3rd Ave., New Brighton, will build and award separate contracts, two 1 story buildings, one 60 x 100 ft. other 60 x 200 ft., brick and steel. Private plans.

Pa., New Castle—Church—St. Marys Roman Catholic Congregation and J. P. Brenot, archt., National Transit Bldg., Oil City, taking bids 1 story and basement, 65 x 150 ft., steel and stone, Beaver St., here. $150,000.

Pa., Phila.—Apartment—Solomon Bros., 9th and Walnut Sts., will build and award separate contracts, 4 story and basement, 80 x 100 ft., brick and steel, 5th St. and City Line. $200,000. Stetler & Dysher, Jefferson Bldg., archts.

Pa., Phila.—Recreation—May 20, by Bureau Recreation, C. H. Grakelow, dir., 1 and 2 story and basement, 80 x 259 ft., brick and steel, plain foundation, called George A. Vare Recreation Centre, 26th and Morris Sts. $150,000. P. H. Johnson, 1713 Sansom St., archt. Noted Feb. 21.

Pa., Pittsburgh—Apartment—Milwood Realty Co., Benedum Trees Bldg., and E. F. Wood & Co., archts., Century Bldg., taking bids 8 story and basement, 60 x 120 ft., brick and steel, Milwood St. $250,000.

Pa., Uniontown—Bank and Office—May 21, by A. Kahn, archt., Marquette Bldg., Detroit, Mich., 7 story and basement, 73 x 150 ft., rein.-con., brick and steel, plain foundation, Bway. and West Main St., here, for Citizens Title & Trust Co. $800,000.

Pa., Upper Darby—High School—June 5, by Bd. Educ. c/o H. W. Caster, archt., Stephen Girard Bldg., Phila., 2 story and basement, 58 x 160 ft., rein.-con. and brick, plain foundation, Lancaster Ave. $250,000.

Md., Baltimore—High School—May 28, by Bd. Awards, 3 story, rein.-con. and brick, plain foundation, Hilton St., $1,000,000. H. G. Perring, Hearst Tower, superv. engr. Pub. Impvt. Comn. Smith & May, Calvert Bldg., archts. Noted May 8.

W. Va., Huntington—Bank and Office—First Natl. Bank, 4th Ave. and 10th St., taking bids and opens same about June 1, 12 story, 60 x 70 ft., rein.-con., brick and steel, 4th Ave. $450,000. Meanor & Handloser, Professional Bldg., archts.

N. C., Raleigh—High School—May 21, by School Com. Hugh Morson High School, Bennehan Sq. $400,000. C. Gasden Sayre, Allen Bldg., archts.

O., Ashtabula—Commercial and Club—L. O. O. M. taking bids 3 story and basement, 82 x 115 ft., brick, steel and concrete. $150,000. E. B. Lee, 1210 Chamber of Commerce Bldg., Pittsburgh, Pa., archt.

O., Cleveland—Orphanage—G. S. Rider & Co., archts., Century Bldg., taking bids 1st group 1 and 2 story, brick and steel buildings, incl. school, dining hall, frame cottages and boiler house, State St. and Bean Rd., for Catholic Charities Corp., c/o W. T. Lyon, pres., 704 Century Bldg. Total cost $2,000,000.

Mich., National Mine—High and Grade School—May 22, F. Moody, secy. Bd. Educ., 2 story and basement, 91 x 211 ft. rein.-con., brick and steel. $250,000. A. D. Hubert, 6-7-8, Kreuz Bldg., Menominee, archt. Noted Feb. 14.

Ill., Chicago—Apartment—M. Telechansky, 1018 Hyde Park Blvd., taking bids 3 story, 60 x 122 ft., fireproof, 5053-59 Ellis Ave. $150,000. C. J. Petelski, 157 West Randolph St., archt.

Ill., Chicago—Apartment—Wolf, Sexton, Harper & Trueax, archts., 7 West Madison St., taking bids 3 story, 100 x 137 ft., fireproof, 69th and Wabash Sts., for J. W. Torrence, c/o architects. $165,000.

Ill., Chicago—Apartment—Hall Lawrence, Rippel & Radcliffe, archts., 123 West Madison St., taking bids 4 story, 100 x 123 ft., fireproof, 6428-38 Cottage Ave., for Lowell Building Corp., c/o architect. $300,000.

Ill., Chicago—Apartment—Rawson & Eisenberg, archts., 5 North La Salle St., taking bids 3 story and basement, 95 x 127 ft., fireproof, Austin and Filmore Sts., for C. P. Leavitt, c/o architect. $150,000.

Ill., Chicago—Bank and Office—K. M. Vitzthum & Co., archts., 605 North Michigan St., taking bids 6 story, 83 x 125 ft., fireproof, North and Crawford Sts., for Pioneer Trust & Savings Bank, c/o archts. $650,000.

Ill., Chicago—School—Z. T. Davis, archt., 400 North Michigan St., taking bids 3 story, fireproof, 6410-12 Dante Ave., for St. Cyrils College, 6411 Dante Ave. $650,000.

Ill., Chicago—Store and Apartment—J. Ecklund, 6942 Stony Island St., taking bids 3 story, 73 x 125 ft., fireproof, 68th and Stony Island Sts. $150,000. A. G. Lund, 453 West 63rd St., archt.

Wis., Milwaukee—Apartment—May 21, by Rosman & Wierdsma, archts., 490 Bway., 3 story and basement, 47 x 154 ft., brick and tile, plain foundation, Ogden Ave., for Franklin Realty Co., 85 Mason St. $150,000. Noted Apr. 3.

Wis., Milwaukee—High School, etc.—Brust & Philipp, archts., 405 Bway., taking bids 3 story and basement, 132 x 220 ft., high school and convent, brick and concrete, plain foundation, Mitchell and 24th Ave., for Our Lady of Mercy Academy, 705 Natl. Ave. $400,000. Noted Dec. 27.

Wis., Racine—Hotel—May 24, by E. B. Funston Co., archts., Janes Bldg., 8 story and basement, 78 x 100 ft., brick and concrete, plain foundation, for Friedman Hotel Corp., 505 Main St. $350,000. Noted Mar. 6.

Neb., Plattsmouth—Infirmary—Nebraska Masonic Home, c/o J. R. Webster, 1540 Natl. Bank Bldg., Omaha, taking bids on first unit, 4 story and basement, L shape, 43 x 85 x 110 ft. brick or stone. $150,000 or more. J. Latenser & Sons, 732 Peters Trust Bldg., Omaha, archts.

Mo., St. Louis—Apartment—E. M. Worthington, 329 Belt Ave., will build 3 story and basement, with two 40 x 178 ft. wings, rein.-con., brick and stone, 4368 Lindell Blvd., by separate contracts. Brick and concrete work, etc. awarded to Kiel. Boaz-Kiel Constr. Co., 4030 Chouteau St. Total cost $200,000.

Tex., Galveston—School—June 5, by Secretary Bd. Trustees, Public Free Schools, two 2 story, 110 x 150 ft., grade schools known as San Jacinto and Central Schools, rein.-con., stucco over brick and hollow tile, etc. W. B. Ittner, 905 Locust St., St. Louis, Mo., archts.

Okla., Wewoka—Court House—May 19, by Clerk Seminole Co., 3 story and basement, 110 x 170 ft., rein.-con. and brick, plain foundation, Wewoka St. $160,000. Monnott & Reid, Empire Bldg., Oklahoma City, archts. Noted Apr. 10.

Calif., Los Angeles—Garage—H. L. Pierce, archt., Wright-Callendar Bldg., taking bids 1 story, 100 x 125 ft., brick, Pasadena Ave., for Albertson Motor Co., 1540 South Figueroa St.

Calif., Los Angeles—Store, Office and Loft—E. C. and E. W. Taylor, archts., 713 West 8th St., taking bids 12 story and basement, 45 x 100 ft., rein.-con., North Bway., for C. Pico, et al., c/o architects.

Calif., San Francisco—Club—Bakewell & Brown, archts., 251 Kearny St., taking bids 2 story, frame and plaster, for Olympic Club, Olympic Club Bldg. $200,000. Noted Nov. 22.

Que., Thetford Mines—City Hall and Court House—City taking bids 3 story, 60 x 100 ft. concrete and steel. $200,000. A. Lacroix, Quebec, archt.

Que., Three Rivers—Station and Office—May 17, by Ross & McDonald, archts., Belmont St., Montreal, 2 story, 32 ft. high, 80 x 325 ft. rein.-con., brick, steel and stone, Champflour St., here, for Canadian Pacific Ry., Windsor Sta., Montreal. Noted Feb. 28.

BIDS RECEIVED

N. J., Asyla (Grenloch, P. O.)—Hospital—Camden Co., Court House, Camden, May

Buildings **(Continued)**

6, general contract group of buildings for tuberculosis hospital, here, from Sinclair & Griggs, Medical Arts Bldg., Phila., $1,012,000; plumbing and drainage, from N. Connelly, 1404 North 18th St., Phila., $93,776; heating and ventilating from Camden Heating Co., 8 Market St., Camden, $64,750; electrical work from Eastern Electric Constr. Co., 1936 South College Ave., Phila., $38,500. Noted Apr. 17.

Pa., Phila.—Hospital, etc.—W. Krusen, dir. Pub. Health, 584 City Hall, May 2, from F. W. Mark Constr. Co., Commercial Bldg., general construction of buildings, dormitories, extensions and alterations to boiler house, at Phila. Hospital for Insane, at Byberry, 35th Ward, $572,650, landscape work, iron fences, gates, grading and paving macadam roads $91,850, buildings, connecting corridors, extending dining room and kitchen, also power house at Phila. Institute for Feeble Minded at Byberry, 35th Ward, $1,111,864; from N. Connelly, 1404 North 18th St., plumbing in 4 cottages for Institute for Feeble Minded, $56,444, and plumbing in 2 dormitories at Insane Hospital $36,988; from Mechanical Equipment Co., 214 South 12th St., heating and mechanical equipment in cottages $224,893 and in dormitories $145,051; from W. V. Pangbourne & Co., 1927 West Montgomery St., electric work in cottages $77,980 and in dormitories $27,000. Noted Apr. 24.

Tenn., Memphis—High School—City, constructing North Side High School, 3 story, from B. B. Buffalo & Co., 3rd and Union Sts. $195,000. Noted Apr. 20.

Mo., Koch—Infirmary—Bd. Pub. Serv., 208 City Hall, St. Louis, May 2, general contract 3 story and basement, 62 x 165 ft., at Robert Koch Sanitorium, here, from J. J. Clarke Constr. Co., Arcade Bldg., St. Louis, $226,885. Noted Apr. 3.

Calif., San Jose—Office—Commercial Club, c/o Binder & Curtis, archts., 255½ 1st St., 10 story and basement, Class A, brick and steel, general contract from R. W. Littlefield, 357 12th St., Oakland, $191,100. Noted Apr. 10

CONTRACTS AWARDED

Mass., Boston—Office—Travers Trust Co., c/o Funk & Wilcox Co., archts. and engrs., 26 Pemberton Sq., will build 9 story, 75 x 80 ft., rein.-con., Friend and Travers Sts., by day labor. $200,000.

Mass., Chatham—School and Town Hall—Town, 2 story, 60 x 110 ft., brick and stone, Main St., to C. A. Batson, Brockton. $150,000.

N. Y., Le Roy—School—Bd. Educ., 2 story and basement, 43 x 59 x 63 x 167 ft., brick and steel, plain foundation, to P. G. Hauck, Cox Bldg., Rochester. Noted Apr. 10.

N. Y., New York—Apartment—Brown, Wheelock, Harris, Vought & Co., 20 East 48th St., 13 story, 60 x 125 ft., brick, steel and stone, plain foundation, 1030 5th Ave., to Dwight P. Robinson & Co., Grand Central Palace. Archts. est. $1,500,000.

N. Y., New York—Apartment—J. Paterno, 601 West 115th St., will build 16 story, brick, steel and stone, plain foundation, 115th St. and Riverside Dr., by day labor. $4,000,000. Private plans.

N. Y., New York—Warehouse—Melville Shoe Corp., 121 Duane St., 6 story and basement, 110 x 120 ft., rein.-con. and steel, plain foundation, Hudson St., to Turner Constr. Co., 244 Madison Ave. Noted Apr. 24 under "R. W. Realty Co., Inc."

N. Y., Yonkers—Exchange—New York Telephone Co., 15 Dey St., New York City, 3 story, brick, steel and stone addition, plain foundation, Riverdale Ave., here, to Gillies-Campbell, 101 Park Ave., New York City. Archts. est. $200,000.

N. J., Atlantic City—Hotel—W. Smedley, archt., St. Girard Bldg., Phila., 9 story and basement, 57 x 185 ft., and 6 story and basement, 53 x 143 ft., steel addition, sheet and wood pile foundation, here, to Turner Constr. Co., 1713 Sansom St., Phila., for Hotel Dennis, Michigan Ave. and Beach. Archts. est. $1,500,000. Noted Apr. 3.

N. J., Cedargrove—Hospital—G. S. Bergen, purch. agt. Essex Co., Court House, Newark, general contract hospital, here, to J. Mitchell, Inc., 999 Bergen Ave., Jersey City, $696,154; plumbing, kitchen and other equipment, to R. B. Smith, 62 Ann St., Newark, $95,632; electrical work, Item 1, to Pub. Serv. Production Co., Park Pl., Newark, $36,300, Items 2 and 3, to K. W. Electrical Co. 47 Lawrence St., Newark, $46,431; heating, ventilating and mechanical equipment, to Stewart & Farrell, 269 Camden St., Newark, $87,742. Noted Apr. 10.

N. J., Trenton—School—Sacred Heart Parish, 153 North Warren St., 4 story, 60 x 115 ft., brick and steel, South Broad St., to F. D. Priory, Inc., 11 West State St., $150,000.

Pa., Phila.—Store—Frank & Seder, 11th and Market Sts., 12 story and basement, 78 x 108 ft., rein.-con., steel and terra cotta, plain foundation, to P. M. Sax, Penfield Bldg., who will take sub-bids when plans are completed. Architects est. $1,000,000. Noted May 1.

Md., St. Marys City—Seminary—St. Marys Female Seminary, 3 story and basement, 42 x 152 ft., concrete and brick, plain foundation, to Hastings & Parsons, Water St., Salisbury, $134,792. Noted May 8.

D. C., Wash.—Chapels, etc.—National Episcopal Cathedral, chapels and burial vaults, etc., here, to G. A. Fuller & Co., Munsey Bldg., $500,000.

W. Va., Morgantown—Lodge B. P. O. E. Lodge 411, remodeling and addition, 40 x 100 ft., general contract to Baker & Combs, Morgantown. Archts. est. $150,000. Noted Oct. 4.

S. C., Greenville—Hotel—Poinsette Hotel Co., 12 story, 100 x 200 ft., brick, steel and concrete, to Hunkin-Conkey Constr. Co., Hunkin-Conkey Bldg., Cleveland, O. Archts. est. $1,000,000.

Tenn., Knoxville—Church—First Presbyterian Church, State St., 1 story, brick and stone addition, to Worsham Bros. Constr. Co., Empire Bldg., approximately $150,000.

O., Akron—City Hall—Bd. Control, steel, concrete and sandstone, South High St., to Moran Constr. Co., Terminal Bldg., $681,524. Noted May 1.

O., Cleveland—Church—St. Johns Cantius Church, 906 College St., 1 story and basement, 90 x 190 ft., brick, steel and stone, Professor and College Sts., to Hebring Co., 1832 West 54th St. Archts. est. $250,000. Noted Apr. 24.

O., Cleveland—Home—Eliza Jennings Home for Aged, c/o C. S. Orr, pres., 14903 Clifton Blvd., Lakewood, 3 story and basement, brick, steel and concrete, 10503 Detroit Ave., here, to J. Grant & Son, 4500 Euclid Ave. Archts. est. $250,000. Noted Apr. 24.

O., Cleveland—Office—Twelve Twenty Huron Co., c/o S. H. White, archt., Schofield Bldg., converting 12 story, brick and steel garage into office, 1220 Huron Rd., to Van Blarcom Co., Plymouth Bldg. Archts. est. $440,000.

Ind., Ft. Wayne—Apartment—Apartment Building Co., c/o A. M. Stauss, Shoaff Bldg., 3 story and basement, 100 x 150 ft., rein.-con. and brick, Berry St., to O. Springer, 419 Citizen Trust Bldg. Archts. est. $250,000.

Ind., Ft. Wayne—Temple—Mispah Temple, A. A. O. N. M. S., 5 story and basement, 146 x 165 ft. rein.-con., brick and steel, to M. Irmscher & Sons, 118 West Berry St. $352,930. Noted Dec. 27.

Ind., Indianapolis—High School—Bd. School Trustees, 150 North Meridian St., 2 story, brick annex, general contract to Cornell Eng. Co., Cornell Ave., $220,000; heating and ventilating, also plumbing to Hayes Bros., Inc., 236 West Vermont St., $31,780 and $35,965 respectively. Engrs. est. $315,119. Noted Mar. 6.

Ind., Indianapolis—Lodge—I. O. O. F. Lodge 465, 3 story and basement, 42 x 120 ft., rein.-con. and brick, to Service Constr. Co., Castle Hall Bldg. Archts. est. $150,000.

Ind., Marion—School—Bd. School Trustees, 2 story and basement, rein.-con., brick and steel, concrete pile foundation, 4th St. to Anderson & Hunnicut Constr. Co., Union City. $187,000. Noted Nov. 29.

Mich., Detroit—Hotel—L. W. Tuller. Tuller Hotel, 13 story and basement, 60 x 100 ft., rein.-con., brick and steel, plain foundation, Sproat St. and Park Ave., to O. Misch Co., 159 East Columbia St. Archts. est. $875,000.

Ill., Chicago—Apartment—A. West, 6719 Oglesby St., 3 story, 125 x 154 ft., fireproof, 7108-22 Constance St., to A. and E. Anderson Co., 19 South LaSalle St. Archts. est. $300,000.

Ill., Chicago—Office—Owner, c/o K. M. Vitzthum & Co., archts., 6059 North Michigan St., 25 story, fireproof, Michigan and Beaubien Sts., to Thompson-Black, 212 West Washington St. Archt. est. $2,000,000.

Ill., Chicago—Store and Apartment—R. B. Wolinsky, 3105 West Harrison St., 3 story, 99 x 115 ft., fireproof, 400-408 South Laramie St., to M. A. Alter & Sons, 1443 North Luna St. Archts. est. $150,000.

Ill., Chicago—Warehouse—Holton Seelye & Co., 140 South Dearborn St., 6 story, 50 x 160 ft., fireproof, 4036-38 South Michigan St., to H. Janisch & Co., 1813 Winona St. Archts. est. $200,000.

Ill., Chicago—Warehouse—Tide Water Oil Sales Corp., c/o A. Epstein, archt., 2001 West Pershing Rd., 2 story, 100 x 140 ft., fireproof, 1441 West 57th St., to E. W. Sproul Co., 2001 West Pershing Rd. Archts. est. $150,000. Noted May 8.

Wis., Kohler—Office—Kohler Co., 3 story and basement, 66 x 210 ft., brick and concrete, plain foundation, to Immel Constr. Co., Dana Bldg., Fond du Lac. $300,000. Noted Apr. 24.

Wis., Lancaster—High School—School Bd., F. Glanville, clk., 2 story and basement, 90 x 130 ft., brick and tile, plain foundation, to H. Evers, 656 Builders Exch., Minneapolis, Minn., $109,260. Noted Apr. 17.

Wis., Milwaukee—Factory—E. C. Landisch, 901 22nd St., 1 story, 60 x 100 ft., brick and timber, plain foundation, 30th St., to Starck Bros., 265 23rd Ave., $40,000.

Wis, Oshkosh—Print Shop—Goettmann Printing Co., 38 Main St., 1 story and basement, 40 x 125 ft., brick and tile, plain foundation, Washington St., to B. B. Ganther, 385 Bowen St. $40,000.

Minn., Northfield—Science Hall—St. Olafs College, P. O. Holland, business mgr., general contract 3 story and basement, 84 x 164 ft., rein.-con., brick and tile, to E. G. Evensta, 714 Builders Exch., Minneapolis. Total cost $250,000. Noted Apr. 24.

Kan., Chanute—Municipal—City, 3 story, 198 x 198 ft., rein.-con., brick and steel, plain foundation, to G. H. Seedhoff Constr. Co., Broadview Hotel Bldg., Wichita. $239,890. Noted Apr. 24.

Mo., St. Louis—Apartment—See "Bids Desired."

Mo., St. Louis—Garage—Commodore Garage Co., c/o W. L. Allen, 615 Chestnut St., general contract 3 story and basement, rein.-con. and steel, 7th St. near Franklin St., to J. S. Alberici Constr. Co., Boatmens Bank Bldg. Archts. est. $200,000.

Mo., St. Louis—Hotel and Shop—Mayfair Investment Co., 312 North 8th St., 17 story and basement, 69 x 128 ft., brick, rein.-con., steel, terra cotta and marble, to P. J. Bradshaw, International Life Bldg., $2,000,000. Noted Apr. 10.

Tex., Houston—Business—J. A. Baker, Chamber of Commerce, general contract 1 story, 240 x 300 ft., brick and steel, Main and Travis Sts., to W. A. Lang, 2nd Natl. Bank, $150,000.

Calif., Beverly Hills—Store—W. G. McCarty, c/o Walker & Eisen, archts., Great Republic Life Bldg., Los Angeles, 1 story (ultimately 6 story), 60 x 200 ft. with 50 x 110 ft. wing brick, here, to C. Thoren, 6764 Hawthorne Ave., Los Angeles, $150,000.

Calif., Los Angeles—Club—Womens Athletic Club, c/o Allison & Allison, archts., Hibernian Bldg., 7 story and basement, 150 x 156 ft., Class A, rein.-con., general contract to Macdonald & Driver, Douglas Bldg., $479,365. Noted May 1.

Calif., Orange—Theatre and Store—H. Z. Adams will build brick, seating capacity 1,300, Maple and Glassell Sts., by day labor. $150,000. West Coast Theatres, Inc., Knickerbocker Bldg., Los Angeles, lessee. Noted May 8.

Calif., San Diego—Bath House—Mission Beach Co., Mission Beach, 175 x 350 ft., heavy mill construction, stucco and steel, to Wurster Constr. Co., Wholesale Terminal Bldg., Los Angeles, $350,000. Noted Jan. 17.

Calif., San Jose—Store and Office—Sainte Claire Realty Co., c/o Weeks & Day, archts., 315 Montgomery St., San Francisco, 5 story and basement, rein.-con., 1st and San Carlos Sts., here, to Cahill Bros., Sharon Bldg., San Francisco, $400,000. Noted May 1.

Calif., Santa Monica—High School—Santa Monica Junior High School Dist., general contract to Alston & Hogan, Oceanpark (Santa Monica P. O.), $174,685. Noted May 1.

Que., Giffard—Orphanage—Les Soeurs de La Charite, 5 story, 70 x 364 ft., concrete, stone, brick and steel, to F. X. Lambert, Ste Anne De La Pocatiere, $400,000.

Que., Montreal—Hospital—Ancient Arabic Order of Nobles of Mystic Shriners, 4 story, 65 x 275 ft., rein.-con., stone, brick and stucco, Pine Ave., to Church Ross & Co. Ltd., 10 Cathcart St., $250,000.

Federal Government Work

BIDS DESIRED

Pa., Pittsburgh — Generating Plants — June 11, by U. S. Engineer, Pittsburgh, two hydro-electric generating plants for Locks 7 and 8, Monongahela River; adv. E. N.-R. May 15.

Ala., Florence—Bridge—Aug. 5, by U. S. Engineer, Florence, bascule bridge across Navigation Lock of Wilson Dam; adv. E. N.-R. May 15.

Ala., Florence—Operating Machinery—June 14, by U. S. Engineer, Florence, operating machinery for regulating gates at Wilson Dam, Tennessee River; adv. E. N.-R. May 15.

O., Cincinnati—Cottages—June 2, by U. S. Engineer, 405 Custom House, lock-keepers cottages at Dams 34, 35 and 38, Ohio River; adv. E. N.-R. May 15.

Minn., Mille Lacs—School, etc.—May 26, by Comrs. Indian Affairs, Wash., D. C., frame schoolhouse, water and heating systems, etc., here.

Calif., San Francisco—Bridge—May 28, by C. H. Sweetset, dist. engr. U. S. Bureau Pub. Rds., 9 Main St., 350 ft. bridge over Big Bear Lake Dam, in Angeles Natl Forest, San Bernardino Co., 621 cu.yd. concrete, etc.

Calif., San Francisco—Roads—May 28, by C. H. Sweetser, dist. engr., U. S. Bureau Pub. Rds., 9 Main St., San Francisco, 2 mi. Pine Knot Rd. and 1 mi. Fredalba Rd., in Big Bear Natl. Forest, San Bernardino Co., 74,600 cu.yd. excav., 260 cu. yd. concrete, 25,000 lb. steel, etc.

BIDS RECEIVED

S. C., Charleston—Electric Crane—Spec 4962—Bureau Yards & Docks, Navy Dept., Wash., D. C., electric traveling bridge crane at Navy Yard, from Niles-Bement Pond Co., 111 Bway., New York City, $8,945. Noted Apr. 24.

Minn., St. Cloud—Screening Buildings—Spec. 4964—Bureau Yards & Docks, Navy Dept., Wash., D. C., door, window and porch screens at U. S. Veterans Hospital here, from E. J. Fellman, 126 Center St., Milwaukee, Wis., $10,500. Noted Apr. 10.

CONTRACTS AWARDED

N. Y., Oswego—Post Office—Treas. Dept. Office Supervising Architect, Wash., D. C., repairs to post office incl. restoration of stone work, new roof, gutters, downspouts, waterproofing, etc., to W. L. Morrison Constr. Co., 613 15th St. N. W., Wash., D. C., $43,000. Noted Apr. 3.

Unclassified

PROPOSED WORK

Grandstand—Clearfield, Pa.—Clearfield Park Assn., E. A. Brown, secy., soon takes bids 70 x 210 ft., brick, rein.-con. and steel. $55,000. Osborn Eng. Co., 7016 Euclid Ave., Cleveland, O., engrs.

Port Development—St. Petersburg, Fla.—Election May 20, $500,000 bonds port development.

Transmission Line — Alabama — See "Dams."

Gas Main Extensions, etc.—New Orleans, La.—New Orleans Gas Light Co. (New Orleans Public Service Inc.) approved two 16 in. main extensions one 8,400 ft. low pressure line other 11,600 ft. high pressure line, two regulator stations to be installed, $120,000; gas distribution department contemplates expenditure $415,000 to provide new regulator stations, new short line extensions and meters, new mains in advance of city paving programme, also renewing and replacing small mains which are inadequate at present. F. G. Frost, genl. supt.

Subway—Cincinnati, O.—Plans 1.6 mi. subway (mostly open cut) from Mitchell Ave. to point 250 ft. west of tracks of Norfolk & Western R.R., $172,890; 2.21 mi. subway (mostly open cut) from point 250 ft. west of Norfolk & Western R.R. tracks to Marion Ave. (Norwood), $456,201; 1.47 mi., (mostly open cut) from Marion Ave. (Norwood) to Oakley, $407,692. F. Krug, City Hall, engr. Noted Feb. 28.

Transmission Line — Kansas — United Water, Gas & Electric Co., plans 15 mi. 6,600 volt transmission line north and west of Hutchinson. $45,000. Private plans.

Park Improvements — El Paso, Tex. — Voted $95,000 bonds park improvements, club house, water system, golf course and other recreation appliances, etc. Address Mayor Dudley.

Lighting System—Claude, Tex.—Election May 31, $35,000 bonds, complete lighting system.

Transmission Line—Oklahoma—Chandler Electric Co., Chandler, making final plans 20 mi. transmission line from Chandler to Key West. $40,000. F. D. Knapp, Chandler, engr.

Transmission Line — Oklahoma — Southwest Power Co., McAlester, making preliminary plans 70 mi. transmission line from Hartford, Ark. to Willburton, Okla. $200,000. Albert Emanuel Co., 61 Bway., New York City, engr.

Subway—Denver, Colo.—City and Union Pacific R.R., 17th and Welton Sts., plans subway on 38th St. and Downing Ave. $300,000. A. K. Vickery, City Hall, engr.

Lighting System—Blendora, Calif.—Plan lighting system, pressed steel and copper standards, portion Plendora, Wabash, Ada Sts., etc. To exceed $25,000. F. Long, city clk.

Street Lighting System—Corona, Calif.—Plans lighting system on 5 mi. streets, probably marbelite standards.

Ornamental Lighting System—Glendale, Calif.—See "Streets and Roads."

Street Lighting System—Pasadena, Calif.—See "Streets and Roads."

Stadium—Santa Barbara, Calif.—Santa Barbara High School Dist. plans stadium to seat from 3,000 to 4,000. $25,000 to $30,000.

Street Lighting System—Venice, Calif.—Plans street lighting system on portion Washington Blvd. and Ocean Front Walk. To exceed $25,000.

Conduit Cables—Montreal, Que.—Plans to install 26,500 ft. conduit cables in district bounded by St. Laurent, Berri, Craig and Commissioners Sts. $25,389. H. Terreault, city engr.

Gas Mains — Montreal, Que. — Montreal Light, Heat & Power Co., Craig St. W., plans 4 in. c.i. gas mains: in 3,970 ft. Gasgrain St. $9,528, 1,245 ft. in DeGaspe St. $2,415, 2,350 ft. Drolet St. $4,816, 2,000 ft. in Henri Julien St., $4,991; 6 in. c.i. pipe in 460 ft. Villeray St. $1,251; 8 in. c.i. pipe in 4,300 ft. St. Domonique St. $14,835, 12 in. c.i. pipe in 1,450 ft. Jarry St., $7,279; 16 in. c.i. pipe in 4,050 ft. Berri St., $33,575. E S Stanton, supt. gas distribution.

BIDS DESIRED

Jetty—Brooklyn, N. Y.—See "Streets and Roads."

Heating and Ventilating Apparatus, etc.—Brooklyn, N. Y. — May 26, by W. H. Gompert, supt. school buildings, Flatbush Ave. extension and Concord St., heating and ventilating apparatus in P. S. 197, Elsmere Pl., through to Delamere Pl.; heating and ventilating apparatus and plumbing, etc., in P. S. 201, 12th Ave. from 80th to 81st Sts., for Bd. Educ., 500 Park Ave., New York.

Heating and Ventilating Apparatus, etc. — Creedmoor (Jamaica P. O.), N. Y. — May 26, by W. H. Gompert, supt. school buildings, Flatbush Ave. extension and Concord St., Brooklyn, heating, ventilating apparatus and plumbing work, in P. S. 33, 222nd St. through to 224th St. from 91st Rd. to 92nd Ave., here, for Bd. Educ., 500 Park Ave., New York.

Heating and Ventilating Apparatus — New York, N. Y.—May 26, by W. H. Gompert, supt. school buildings, Flatbush Ave. extension and Concord St., Brooklyn, heating and ventilating apparatus in an addition to P. S. 36, Black Rock, Castle Hill Aves.; in P. S. 80, East Mosholu Parkway N. and Van Cortland Ave., Bronx Boro, for Bd. Educ., 500 Park Ave.

Heating and Ventilating Apparatus — St. George, N. Y.—May 26, by W. H. Gompert, supt. school buildings, Flatbush Ave. extension and Concord St., Brooklyn, heating and ventilating apparatus in an addition to P. S. 16, Daniel Low Terrace through to Monroe Ave., here, for Bd. Educ., 500 Park Ave., New York.

Tunnels—Montreal, Que.—May 20, by R. Bauset, city clk., pedestrian tunnels under Canadian Natl. Ry. tracks at Greene Ave. and Shearer St. rein.-con. walls, 2 ft. thick, 7 ft. diam. H. A. Terreault, city engr.

BIDS RECEIVED

Heating and Ventilating Apparatus, etc.—Brooklyn, N. Y.—W. H. Gompert, supt. school buildings, Flatbush Ave. extension and Concord St., May 12, heating and ventilating apparatus in addition to Erasmus Hall High School, Bedford Ave., from Austin Eng. Co., 121 West 42nd St., New York, $152,775; plumbing and drainage, from J. A. Graf, 394 Waverly Ave., $96,742. Noted May 1.

Heating and Ventilating Apparatus — New York—W. H. Gompert, supt. school buildings, Flatbush Ave. extension and Concord St., Brooklyn, May 8, heating and ventilating apparatus, etc., in masters house, dormitory buildings, infirmary, power house, etc., for Parental School on westerly side of road between Flushing and Jamaica, about 1,700 ft. south of North Hempstead Turnpike, Flushing, from Austin Eng. Co., 121 West 42nd St., New York City City, $64,375. Noted Apr. 24.

Heating and Ventilating Apparatus — New York, N. Y.—W. H. Gompert, supt. school buildings, Flatbush Ave. extension and Concord St., May 8, heating and ventilating apparatus in P. S. 202, Hegeman Ave., from Raisler Heating Co., 129 Amsterdam Ave., New York, $136,525; in P. S. 206, Ave. V, from Alvord & Swift, Grand Central Terminal, New York, $135,756. Noted Apr. 24.

Heating and Ventilating Apparatus — Brooklyn, N. Y.—W. H. Gompert, supt. school buildings, Flatbush Ave. extension and Concord St., Brooklyn, May 8, heating and ventilating apparatus in P. S. 71, Roberts Ave., here, from Alvord & Swift, Grand Central Terminal, $100,756. Noted Apr. 24.

Heating and Ventilating Apparatus — Jamaica, N. Y.—W. H. Gompert, supt. school buildings, Flatbush Ave. extension and Concord St., Brooklyn, May 8, heating and ventilating apparatus in P. S. 116, Wren Pl., South Jamaica, from Alvord & Swift, Grand Central Terminal, New York City, $100,756. Noted Apr. 24.

Heating and Ventilating Apparatus — Richmond Hill (Jamaica P. O.), N. Y. — W. H. Gompert, supt. school buildings, Flatbush Ave. extension and Concord St., Brooklyn, heating and ventilating apparatus in P. S. 121 109th (Suwanee) Ave., here, from Alvord & Swift, Grand Central Terminal, New York City, $100,756. Noted Apr. 24.

Plumbing, etc.—Asyla (Grenloch, P. O.), **N. J.**—See "Buildings."

Steel Pontoon—Algiers, La.—Algiers Pub. Serv. Co., Inc., Canal St., New Orleans, 1 steel pontoon for Morgan St. landing here, from W. P. Copping Steel Plate & Iron Wks. Inc., 401 North St. Patrick St., New Orleans, $24,450. Noted Apr. 17.

Retards, etc. — Lexington, Mo. — State Hy. Dept., Jefferson City, 2,400 lin.ft. current retards along north bank of Missouri River, above here, in connection with bridge over Missouri River, here, from Woods Bros. Constr. Co., Lincoln, Neb. $140,400.

CONTRACTS AWARDED

Transmission Line—New York—Staten Island Edison Corp., St. George Terminal, St. George, 33,000 volt transmission line from Livingston power house to Eltingville, also outdoor substations at Livingston and Eltingville, to J. G. White Eng. Corp., 43 Exchange Pl., New York City.

Foundations—Brooklyn, N. Y.—Transit Comn., 49 Lafayette St., New York, foundations for electrical repair shop at Coney Island Yard, here, to J. D. Walsh, Inc., 132 4th St., $37,000. Noted May 8.

Column Foundations, etc.—New York, N. Y.—Transit Comn., 49 Lafayette St., column foundations, etc. in Westchester Ave. Yard, Routes 19 and 20, to P. T. Cox Contg. Co., 154 Nassau St., $204,040; permanent ramps at Times Sq. station, Routes 4 and 36, Agreement "CT," to Fox Reynolds Co., 81 East 125th St., $9,600; signal tower in Lenox Ave. Yard, Agreement "DA," to J. B. Roberts Co., 1170 Bway., $19,521; structural steel for Westchester Ave. Yard, Routes 19 and 22, to C. Meads & Co., 217 West 14th St., $148,000; tracks for portion of Lenox Ave.-148th St. Yard, to T. H. Reynolds Co., 50 Park Pl., $70,401. Noted May 1 and 8.

Heating and Ventilating Apparatus, etc.—Cedargrove, N. J.—See "Buildings."

Coal Trestle, etc.—Pleasantville, N. J.—Atlantic City R.R. Co., Phila., Pa., 144 ft. rein.-con. coal trestle timber office building, 25 x 60 ft., brick garage, etc., Doughty Rd., here, to Curtis-Grindrod Co., 10 South 18th St., Phila., Pa.

Coal Trestle, etc. — Lansdowne, Pa. — Newton Coal Co., Franklin, Bank Bldg., Phila., coal trestle 160 ft. long, drive-way, office, and scales, etc., to H. E. Baton, 1713 Sansom St., Phila.

Grain Elevator—Frederick, Md.—Frederick County Farmers Exch., J. H. Gambrill, treas., grain elevator, workhouse, and storage, brick, plain foundation, to M. A. Long Co., 17 North Guilford Ave., Baltimore, $35,000.

Stadium — Austin, Tex. — University of Texas, concrete stadium (1st unit), to Walsh & Burney, Calcasieu Bldg., San Antonio. $201,000. Noted May 1.